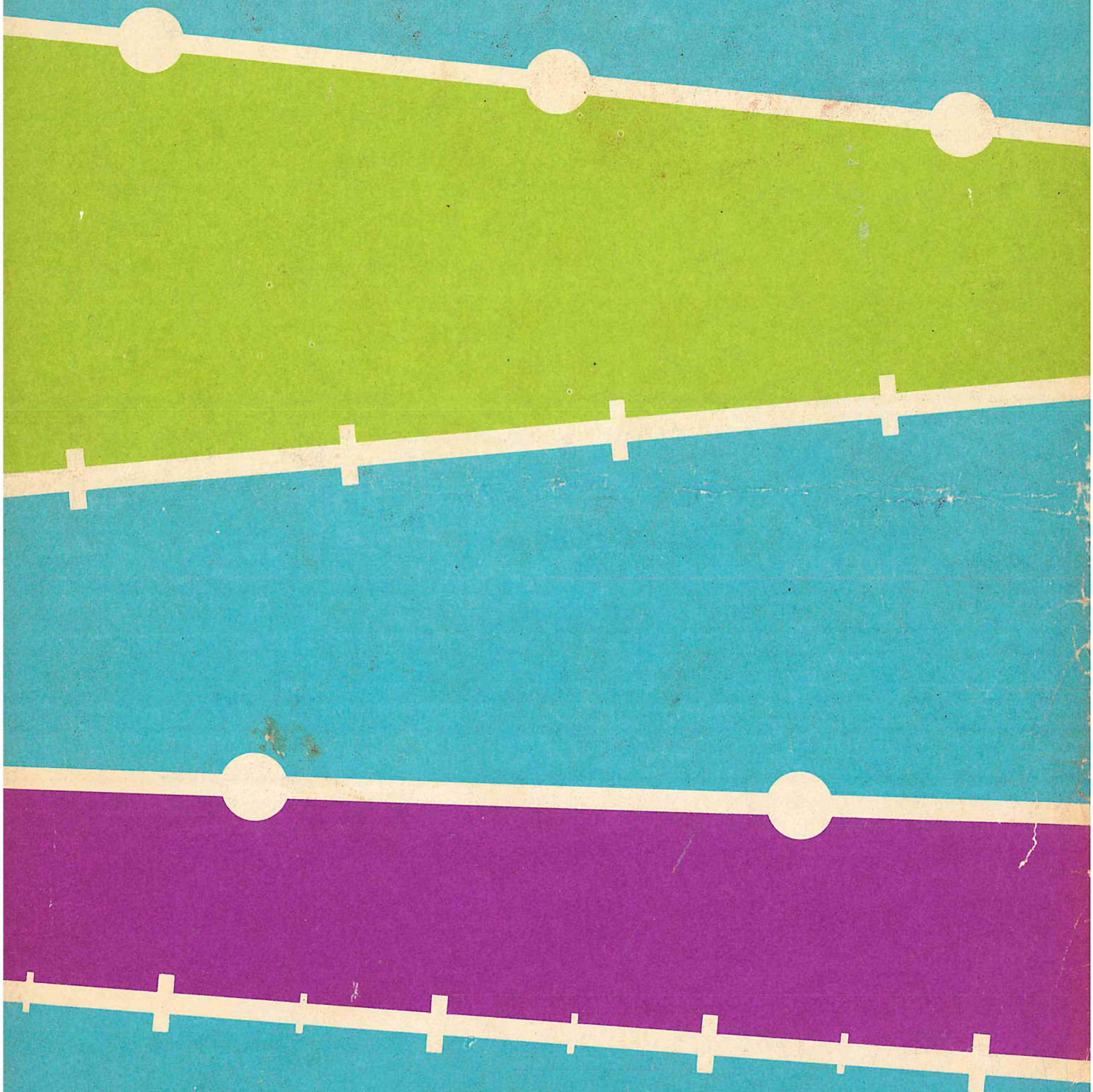
MODERN MATHEMATICS THROUGH DISCOVERY

BOOK TWO



NAME Eric Sonia

MODERN MATHEMATICS THROUGH DISCOVERY

BOOK TWO

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Ohio University

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Hammond, Indiana, Public Schools

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Teachers College
Columbia University

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Mathematics Consultant
Formerly of Wheaton, Illinois, Public Schools

Illustrations by Tom Cooke

This book is for the pupil. The complete program for Grade Two includes a Teacher's Edition that contains a reduced copy in full color of every page of the pupil's book, with answers and with teaching suggestions for each page. It also contains a discussion of mathematics for teachers of primary grades.

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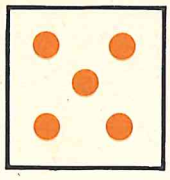
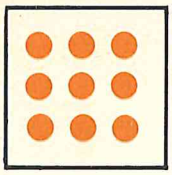
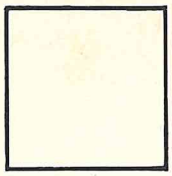
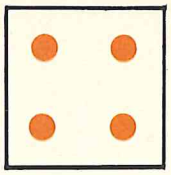





___	___	___	___

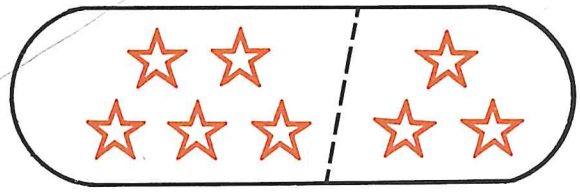
4	2	1	5	6	7
3	4	9	6	0	5
20	30	50	40	90	70

is less than	is greater than
<	>

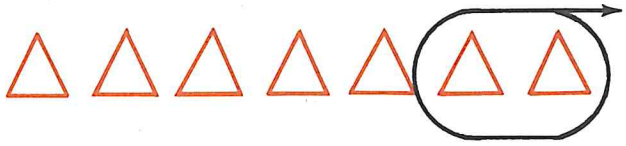
8 ☐ 9	7 ☐ 10	2 ☐ 0
60 ☐ 50	30 ☐ 80	0 ☐ 10
70 ☐ 90	40 ☐ 30	90 ☐ 80

PRETEST

NAME Eric Sonic



5 + 6 = 8



5 + 2 = 7

4 + 4 = 8	3 + 2 = 5	5 + 2 = 7	1 + 4 = 5
6 + 1 = 7	2 + 2 = 4	3 + 4 = 7	5 + 1 = 6
2 + 6 = 9	2 + 5 = 7	3 + 5 = 9	3 + 3 = 6
5 + 3 = 8	1 + 6 = 7	4 + 3 = 7	2 + 3 = 5
1 + 7 = 8	4 + 2 = 6	4 + 1 = 5	1 + 5 = 6
6 + 2 = 8	7 + 1 = 8	2 + 4 = 6	1 + 3 = 4

6 − 5 = 1	4 − 3 = 2	7 − 2 =	8 − 1 = 9
8 − 6 =	7 − 5 =	5 − 3 = 4	8 − 3 = 10
6 − 3 =	7 − 4 =	8 − 4 =	8 − 7 =
5 − 4 =	7 − 1 =	6 − 2 =	8 − 2 = 2
7 − 3 =	6 − 4 =	7 − 6 =	8 − 5 =

B

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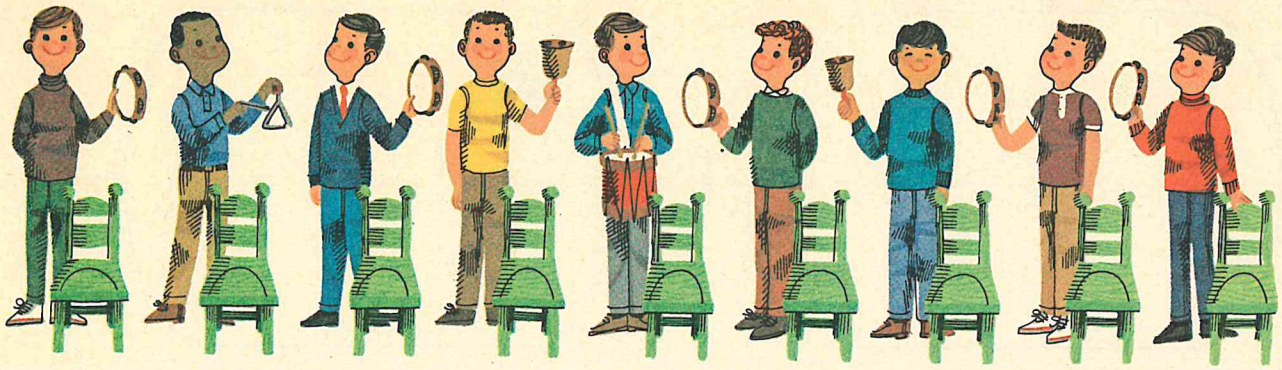

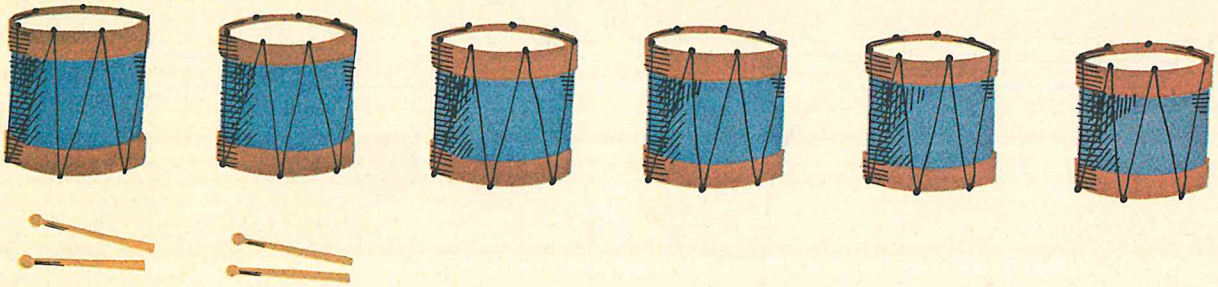

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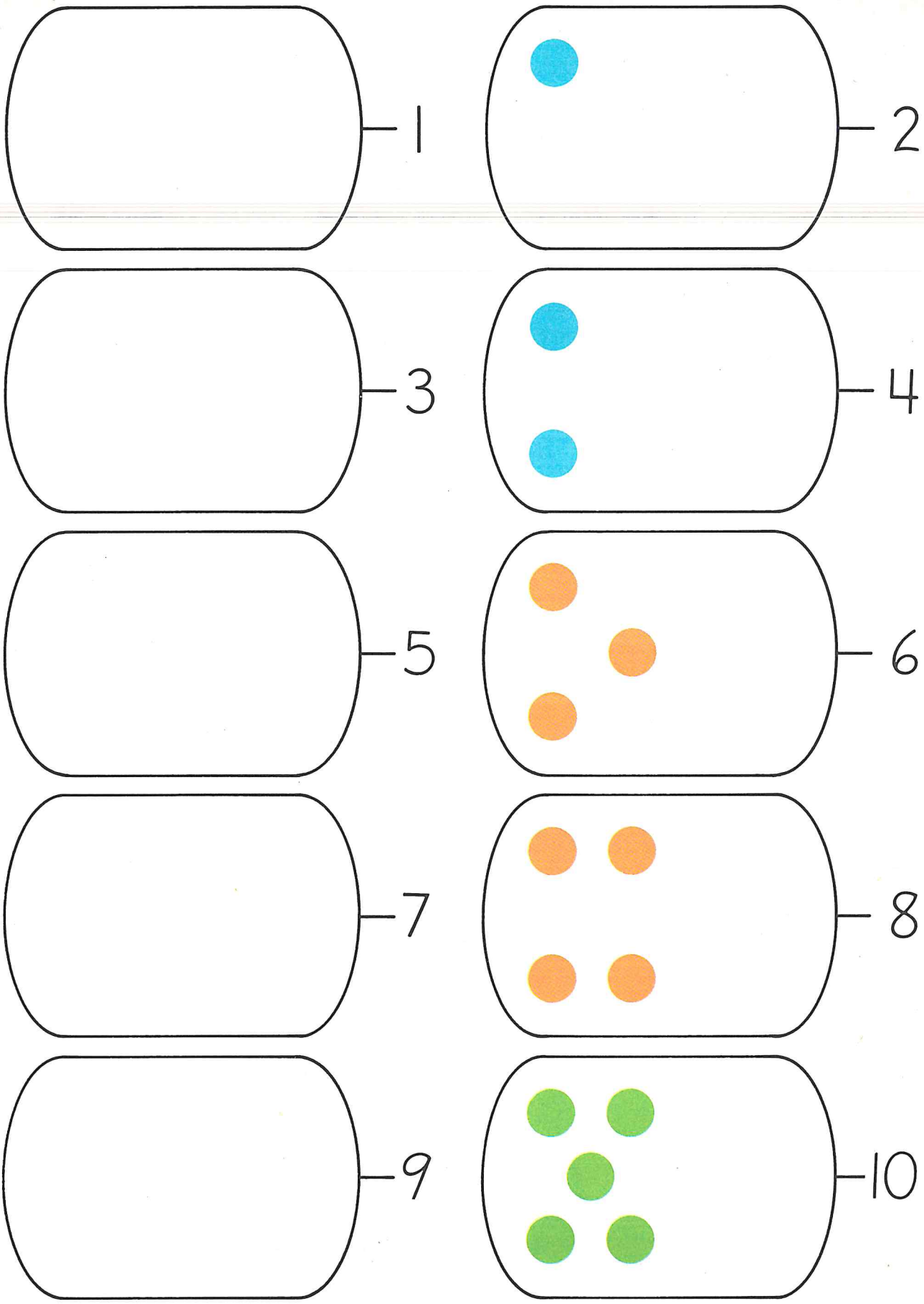

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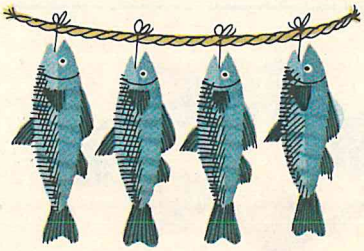
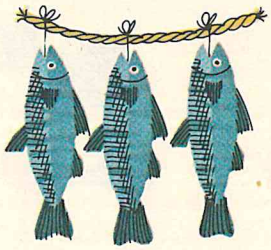
0 1 2 3 4



zero one two three four



zero	0								
one	1								
two	2								
three	3								
four	4								

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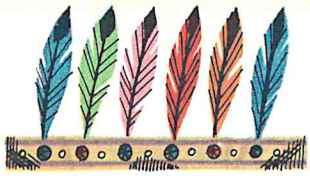
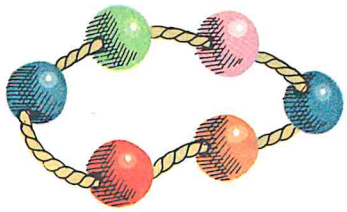
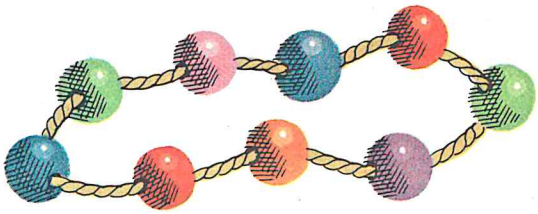
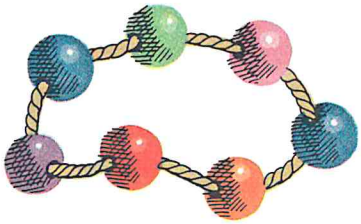
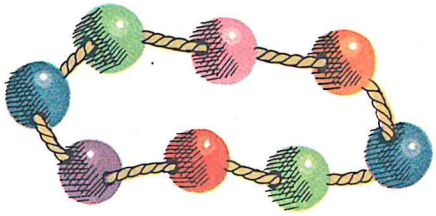


5 6 7 8 9

five six seven eight nine

five	5	5	5	5	5	5	5	5	5
six	6	6	6	6	6	6	6	6	6
seven	7	7	7	7	7	7	7	7	7
eight	8	8	8	8	8	8	8	8	8
nine	9	9	9	9	9	9	9	9	9

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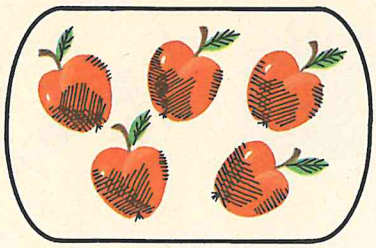

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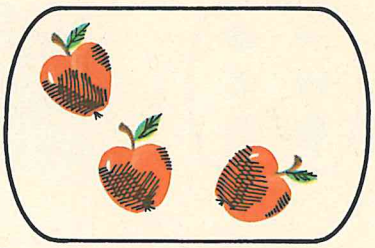

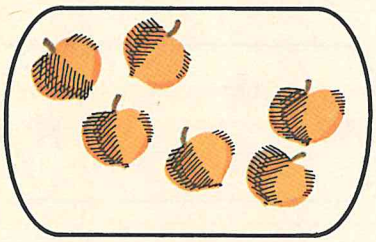

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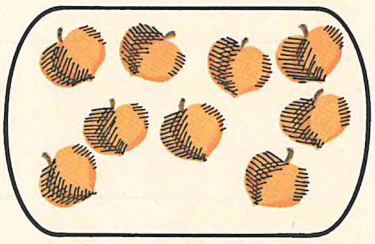

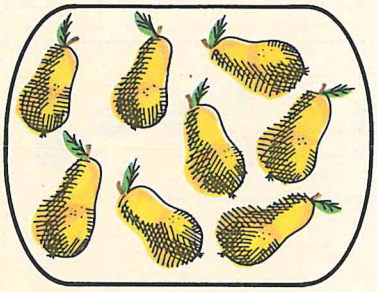

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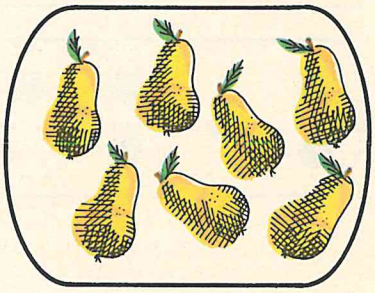

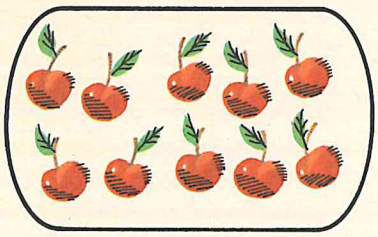

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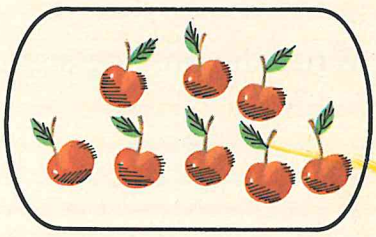

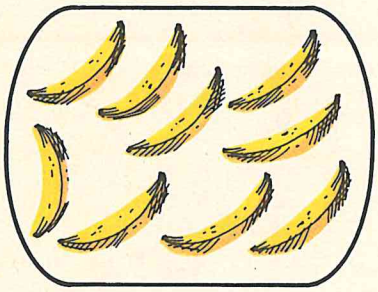

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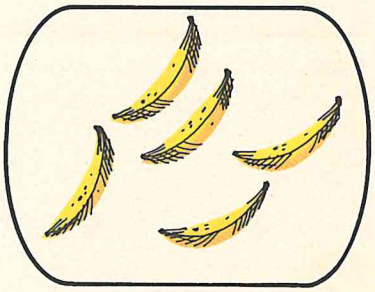

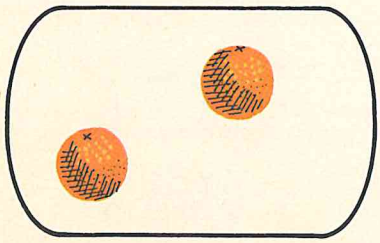

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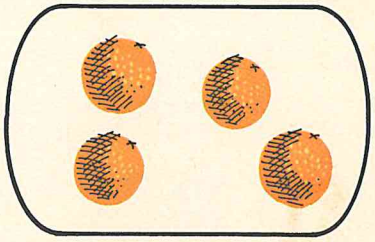

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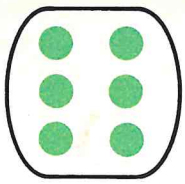
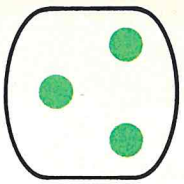


is greater than

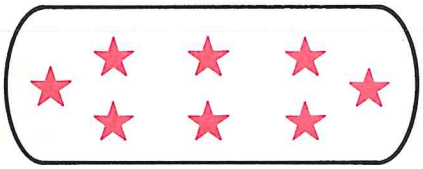
$>$

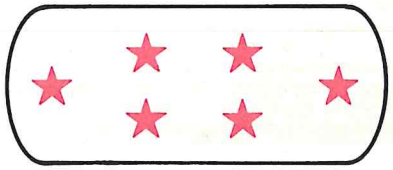
is less than

$<$

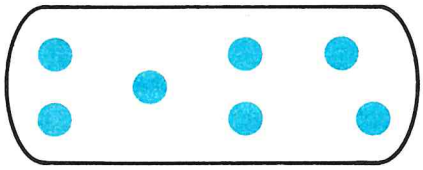


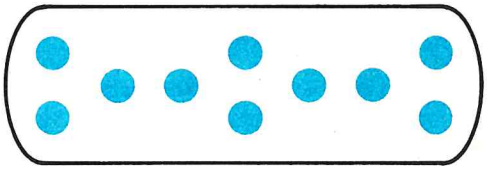
$6 > 3$ $3 < 6$





8 ☐ 6





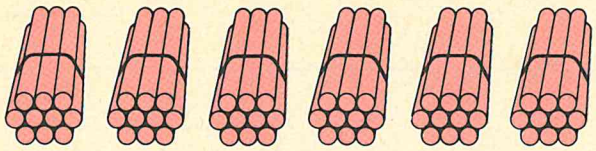
7 ☐ 10

Write the missing sign, $<$ or $>$.

1	☐ 3	5	☐ 2	9	☐ 10
7	☐ 5	4	☐ 1	10	☐ 8
8	☐ 4	5	☐ 3	6	☐ 5
5	☐ 6	9	☐ 6	8	☐ 0
3	☐ 2	6	☐ 7	0	☐ 9
8	☐ 5	10	☐ 5	0	☐ 1
7	☐ 9	9	☐ 4	1	☐ 0

NAME _____

Count the tens in the pictures.



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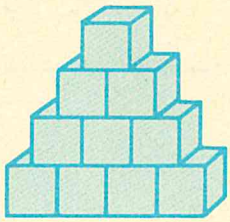

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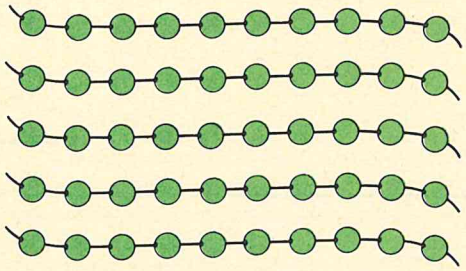

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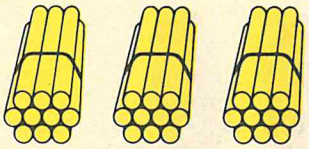

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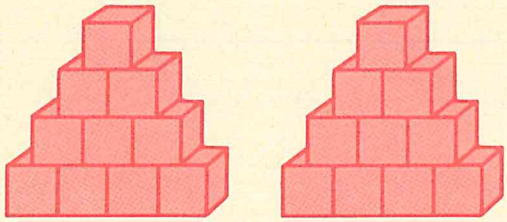

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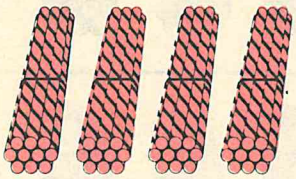

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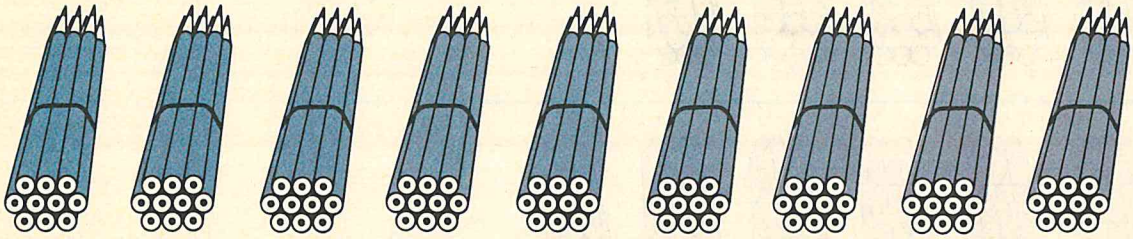

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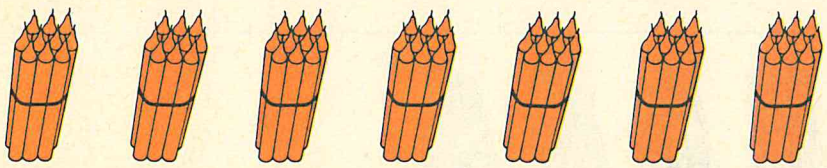

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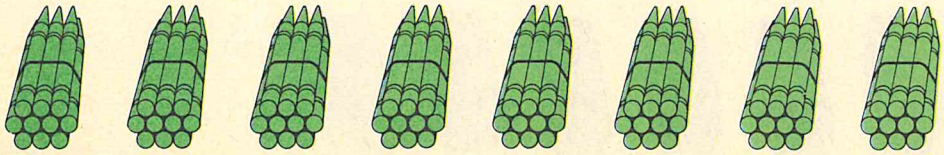

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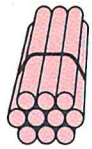

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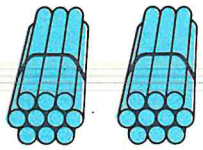

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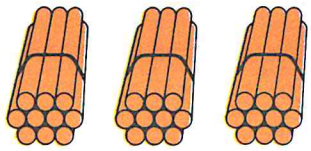

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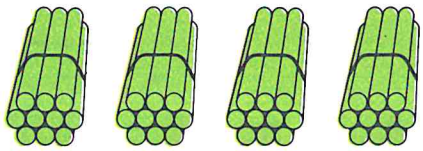

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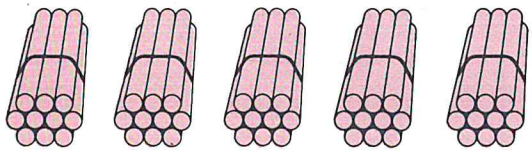

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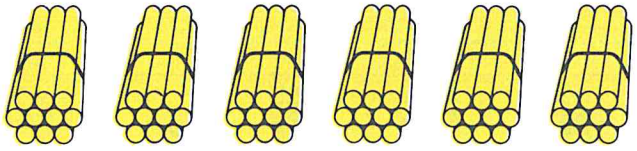

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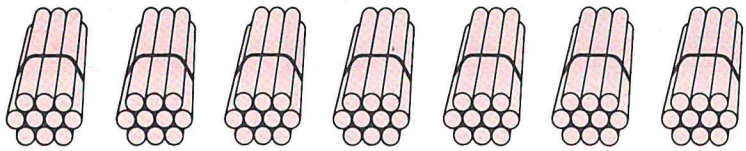

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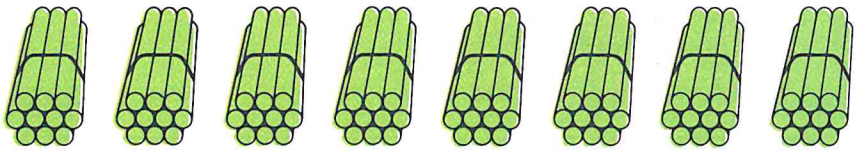

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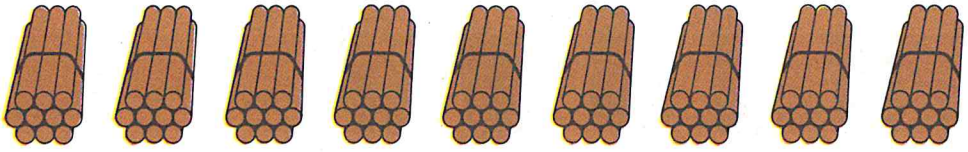

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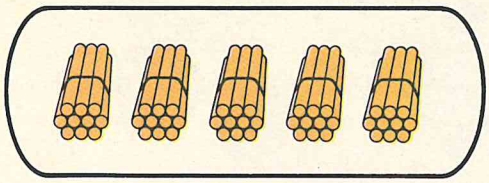
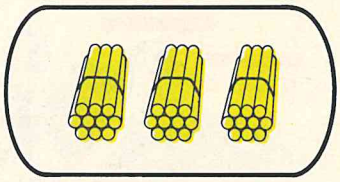
NAME _____

is greater than	is less than
>	<





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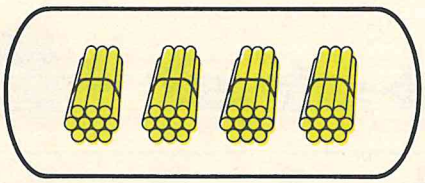

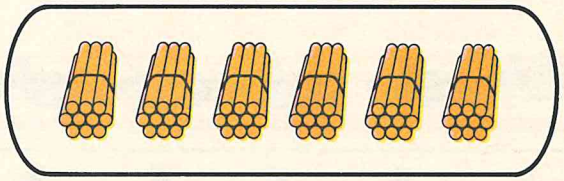

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Write the missing sign, > or <.

90		70	40		60	10		20
60		80	70		40	10		0
30		10	20		40	40		30
60		20	30		50	40		50
50		70	30		20	80		90
80		70	60		50	90		70
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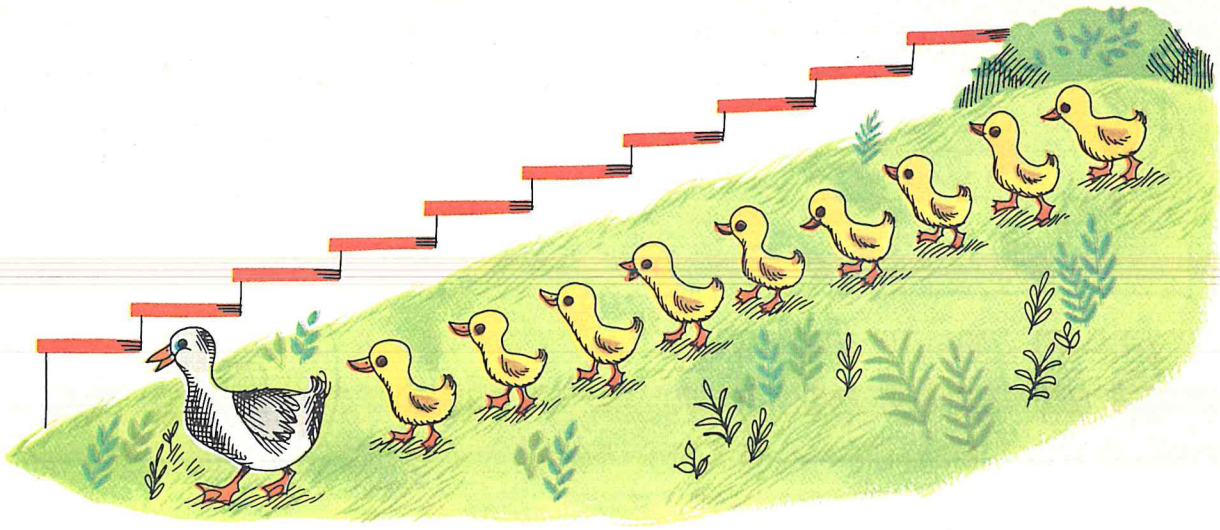
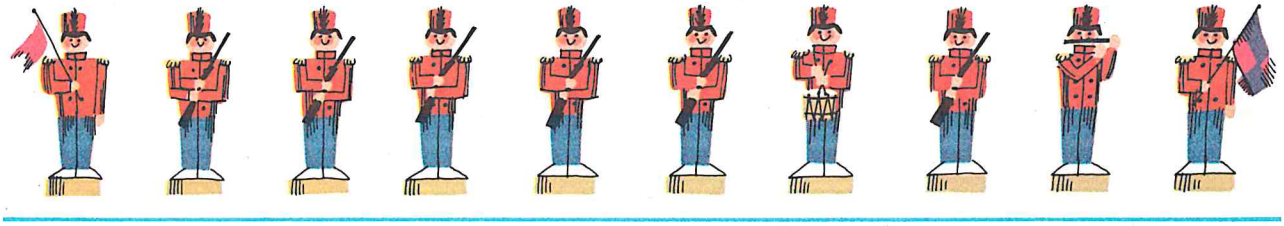
30		40	60		70	60		90

NAME _____



first, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth



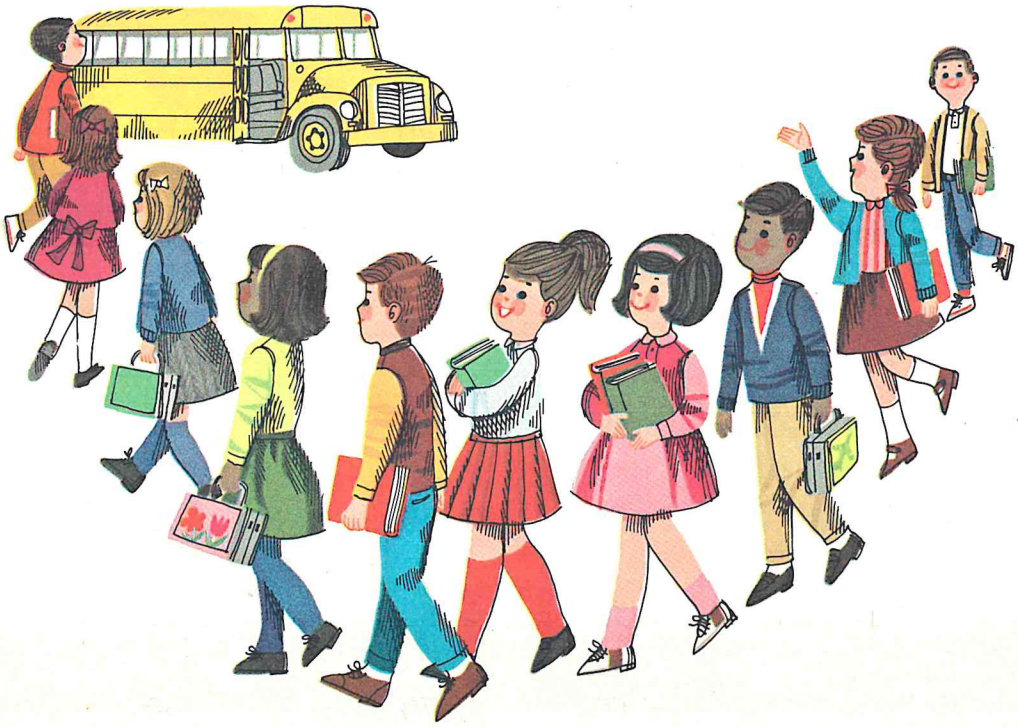
first

second

third

fourth

fifth



tenth

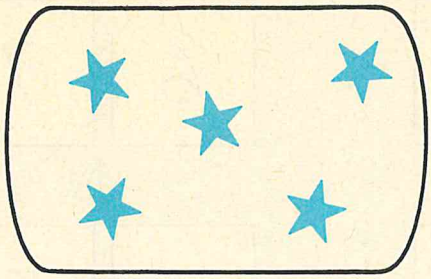
ninth

eighth

seventh

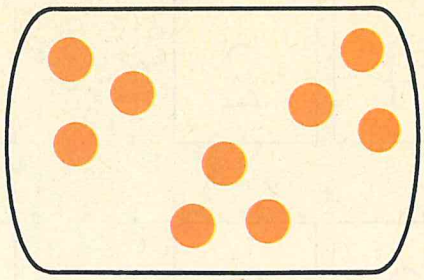
sixth

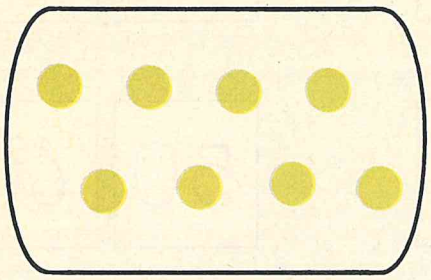
NAME _____



nine

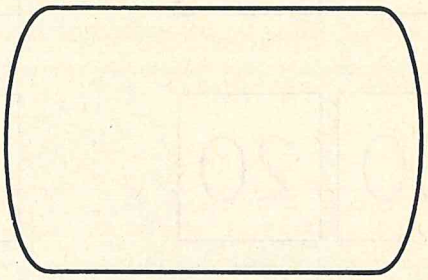
5





eight

0



is less than	is greater than
<	>

Write the missing sign, < or >.

6 ☐ 7	3 ☐ 1	2 ☐ 1
5 ☐ 4	8 ☐ 7	5 ☐ 6
9 ☐ 10	9 ☐ 0	0 ☐ 1
20 ☐ 30	30 ☐ 50	40 ☐ 20
60 ☐ 40	90 ☐ 80	70 ☐ 80

NAME _____

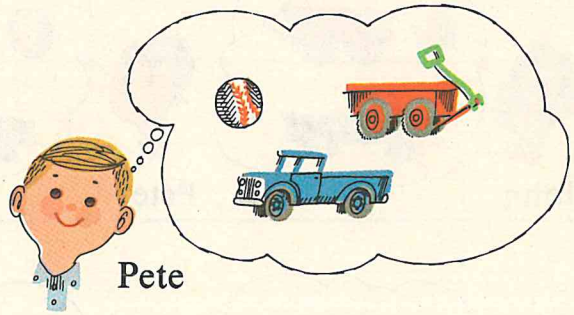
4	2	1	5	6	7
3	4	9	8	0	5
30	20	30	50	50	60
70	90	40	60	60	80

is greater than
>

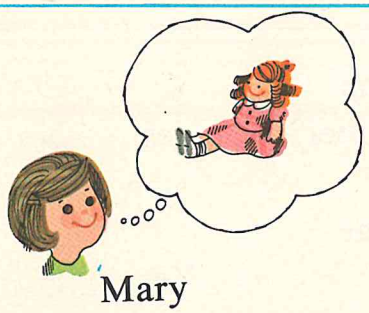
is less than
<

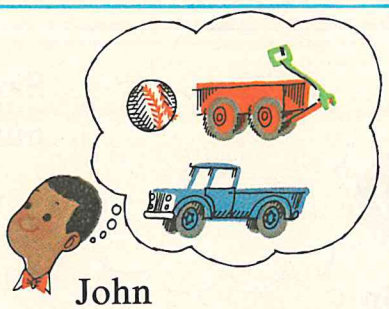
4		2	1		5	6		7
3		4	9		8	0		5
30		20	30		50	50		60
70		90	40		60	60		80
60		90	0		10	9		10
50		40	80		90	70		60

NAME _____



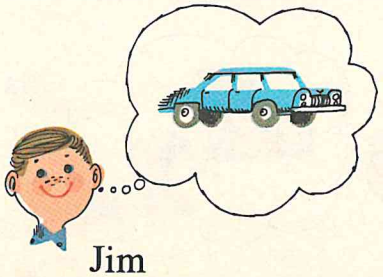
Same number? Yes No Same set? Yes No





Same number? Yes No

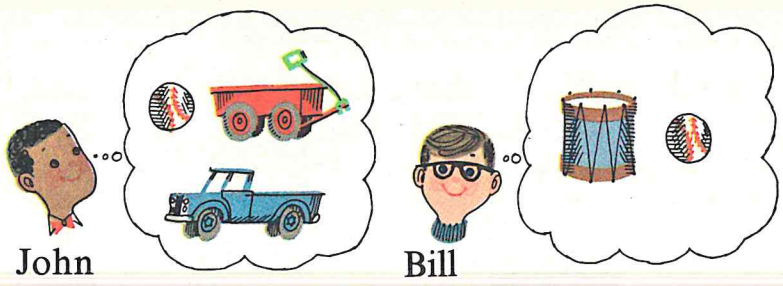
Same set? Yes No



Same number? Yes No

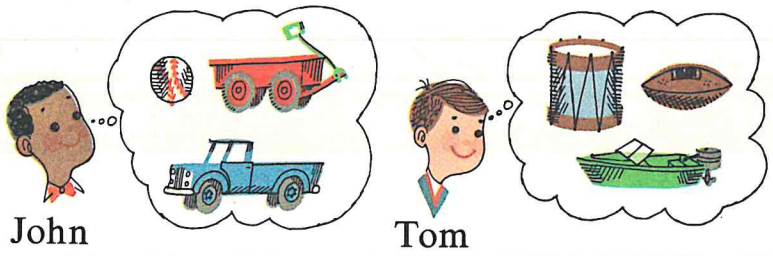
Same set? Yes No

NAME _____



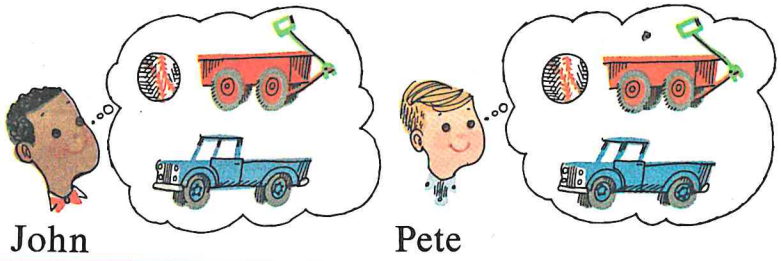
Same number? Yes No

Same set? Yes No



Same number? Yes No

Same set? Yes No



Same number? Yes No

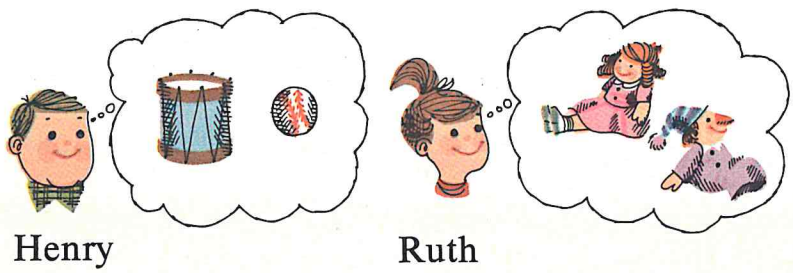
Same set? Yes No

Same number? Yes No

Same set? Yes No

Same number? Yes No

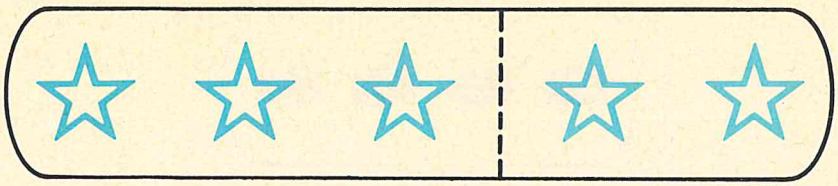
Same set? Yes No



Same number? Yes No

Same set? Yes No

NAME _____



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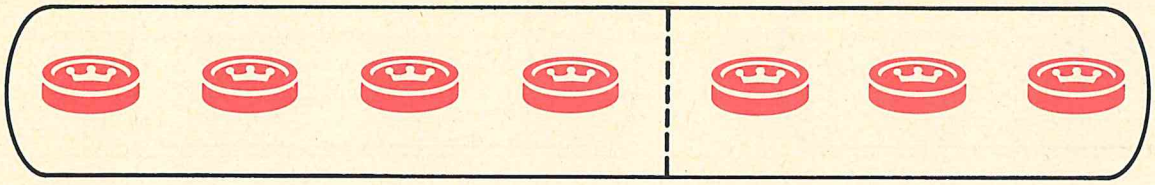

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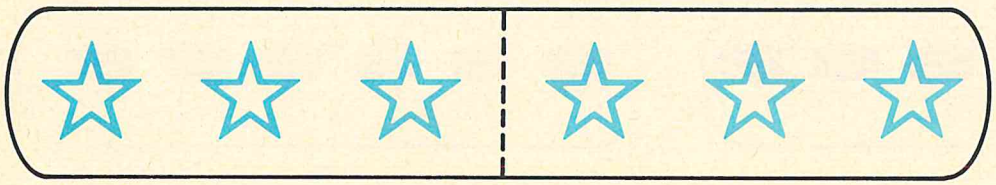

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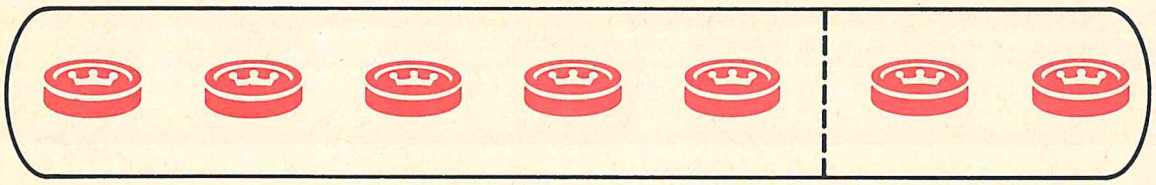

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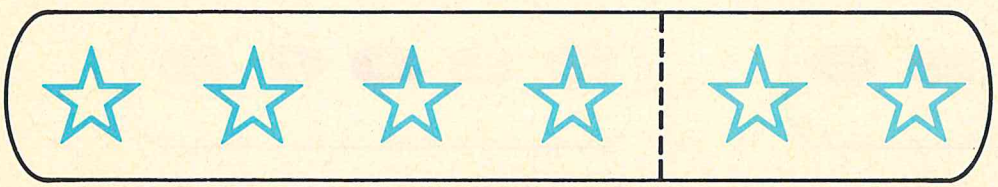

___ + ___ = ☐

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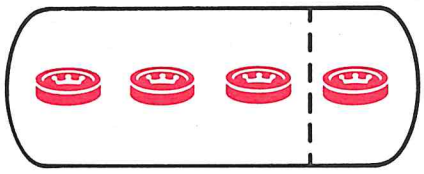

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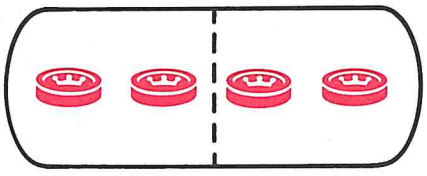

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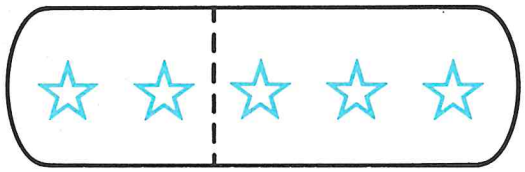

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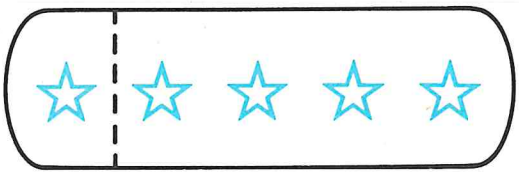

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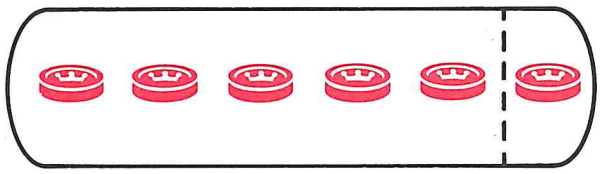
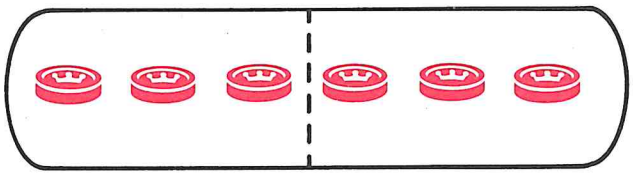


___ + ___ ☐



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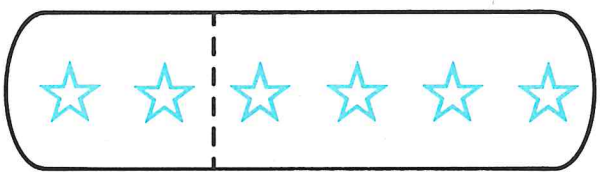

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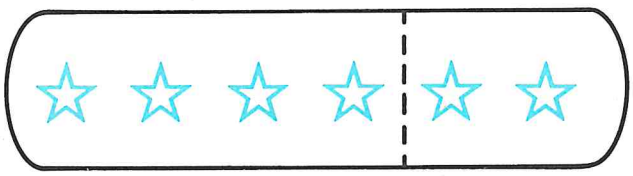

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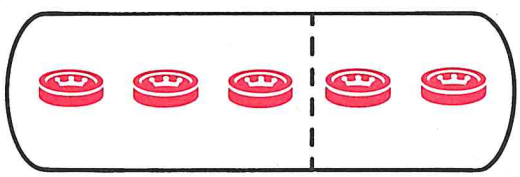

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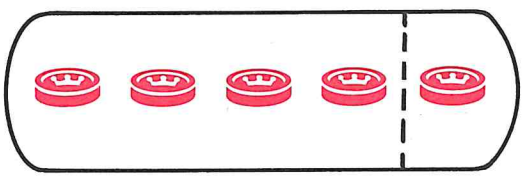
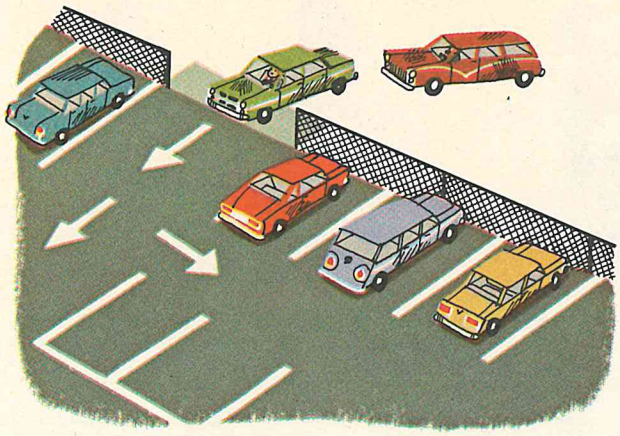


___ + ___ ☐

NAME _____



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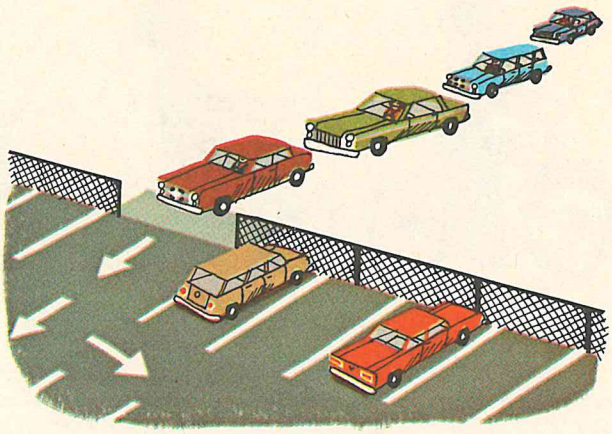

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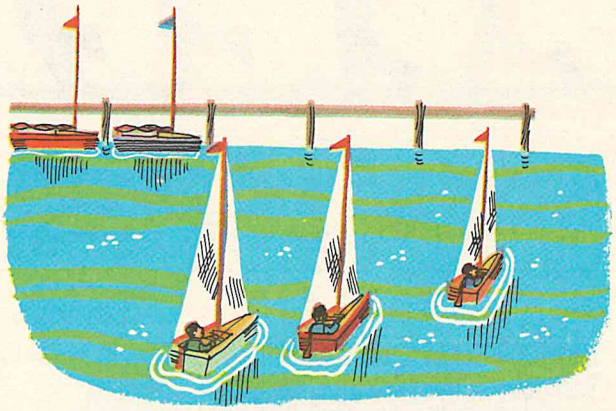
___ + ___ = ___



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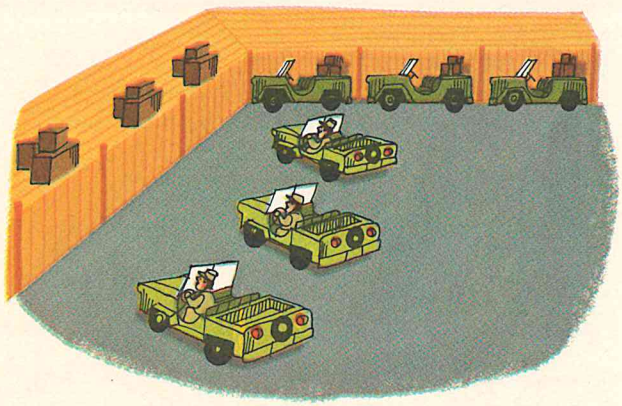

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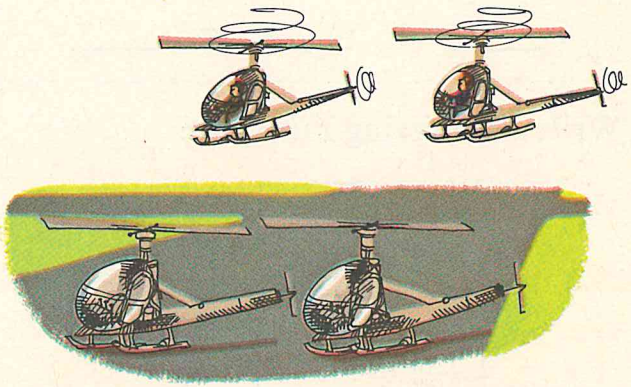
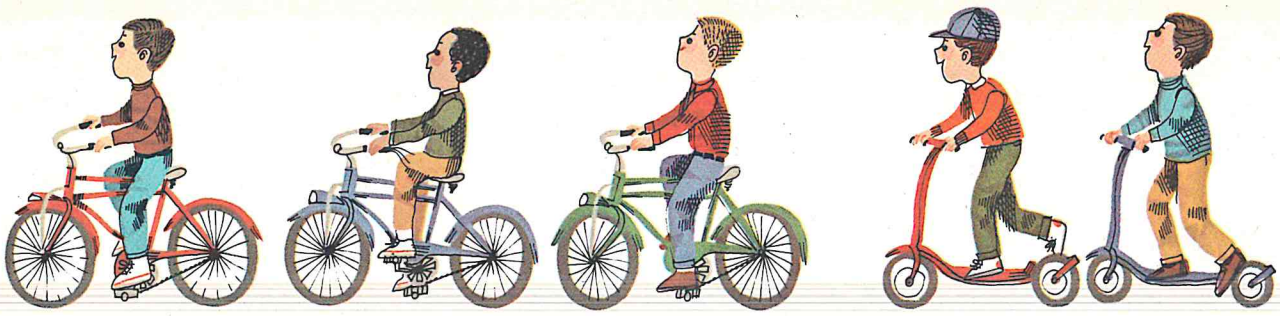


___ + ___ = ___

NAME _____

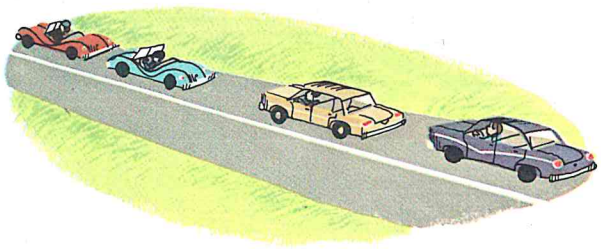


___ + ___ = ___

2 + ___ = ___

___ + ___ = ___

2 + ___ = ___



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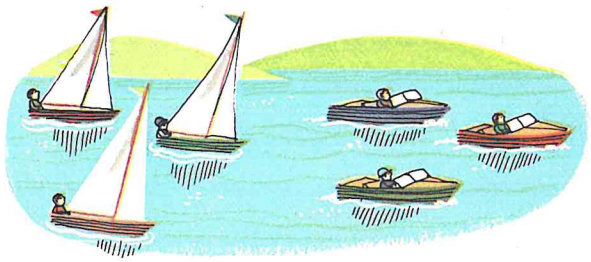


___ + ___ = ___

Write the missing numerals.

3 + 2 = ☐

4 + 2 = ☐

3 + 3 = ☐

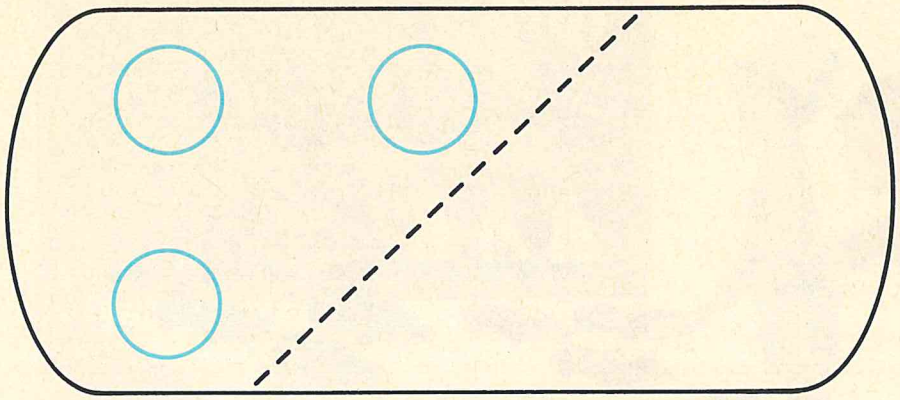
2 + 3 = ☐

2 + 4 = ☐

2 + 2 = ☐

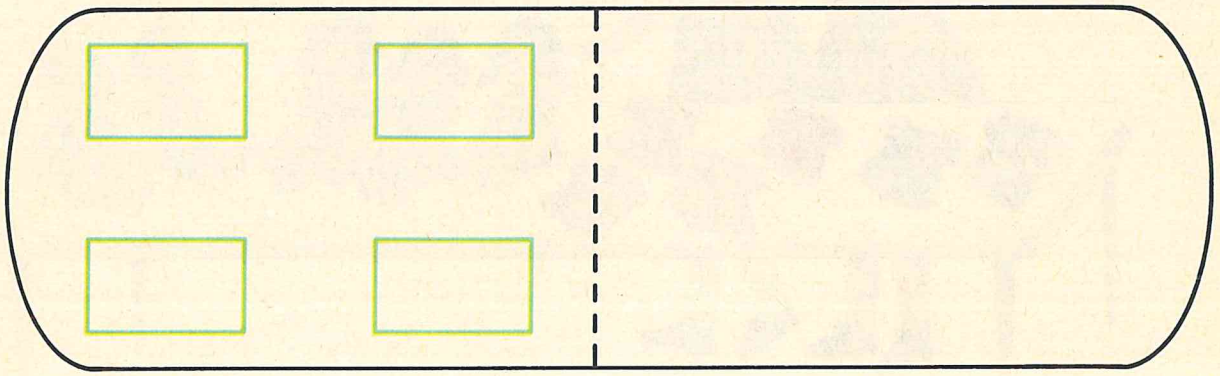
NAME _____

Draw more to make a set of 5.



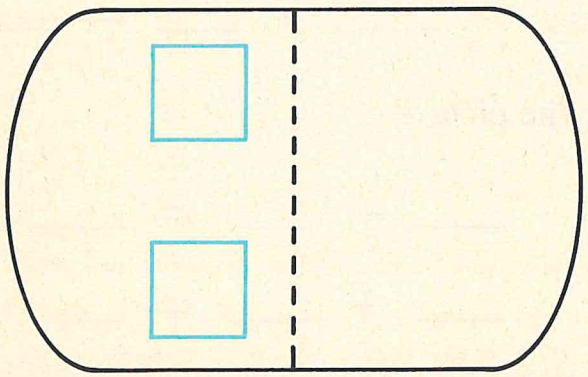
___ + ___ = 5 ___ + 3 = 5

Draw more to make a set of 6.



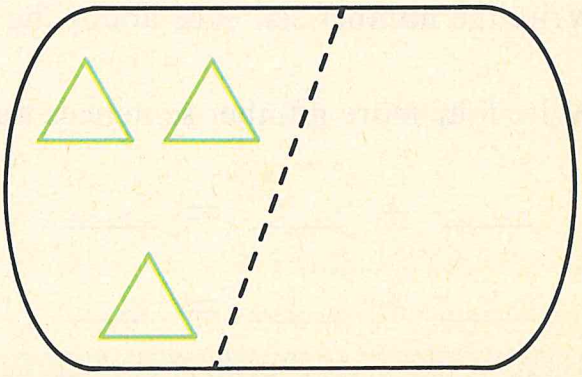
___ + ___ = 6 ___ + 4 = 6

Draw more to make a set of 4.



___ + ___ = 4

Draw more to make a set of 6.



___ + ___ = 6

NAME _____

Write the number sentence about the children. ___ + ___ = ___

Write the number sentence about the cars. ___ + ___ = ___

Write four more number sentences about the picture.

___ + ___ = ___ ___ + ___ = ___

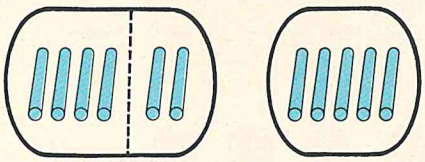
___ + ___ = ___ ___ + ___ = ___

2 + ___ = 6

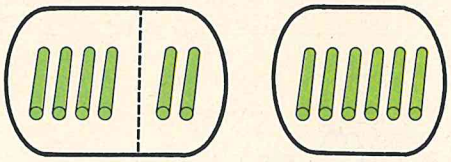
3 + ___ = 6

NAME _____

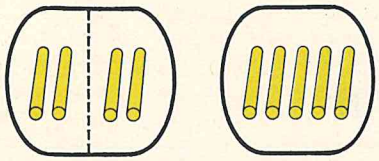
is greater than	is less than	equals
>	<	=



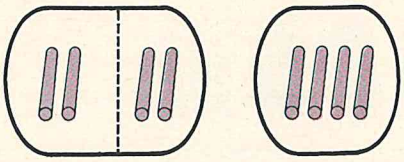
$4 + 2 \square 5$



$4 + 2 \square 6$



$2 + 2 \square 5$



$2 + 2 \square 4$

Write the missing sign, >, <, or =.

$2 + 3 \square 6$

$4 + 2 \square 3$

$2 + 4 \square 5$

$3 + 3 \square 5$

$2 + 3 \square 5$

$2 + 4 \square 4$

$3 + 2 \square 4$

$2 + 4 \square 6$

$2 + 4 \square 3$

$2 + 2 \square 6$

$3 + 2 \square 6$

$3 + 3 \square 6$

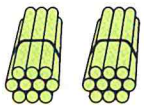
$2 + 2 \square 3$

$4 + 2 \square 4$

$2 + 3 \square 5$

$3 + 2 \square 5$

NAME _____



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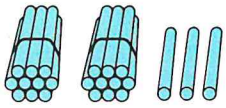

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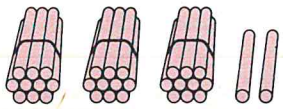

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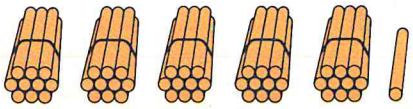

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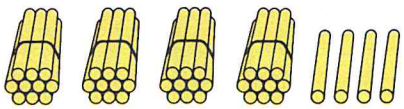

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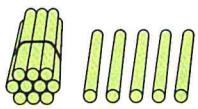

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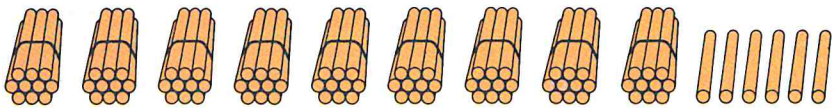

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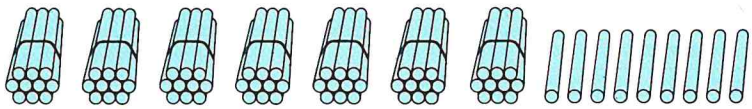

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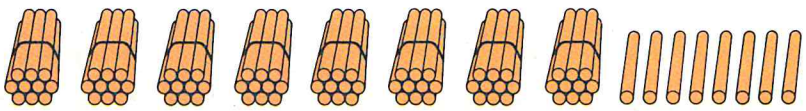

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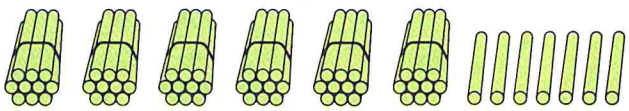

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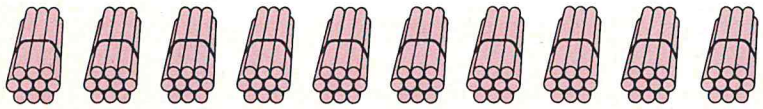

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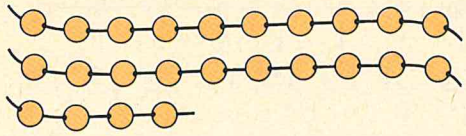
NAME _____



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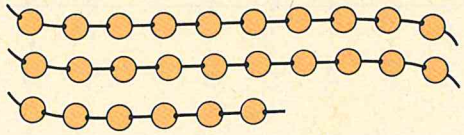

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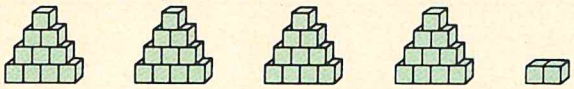

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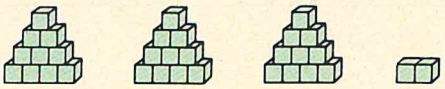

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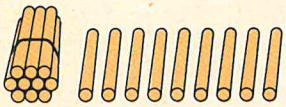

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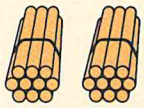

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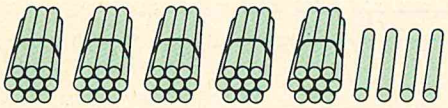

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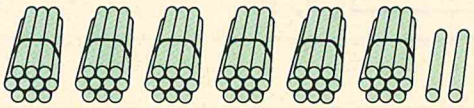


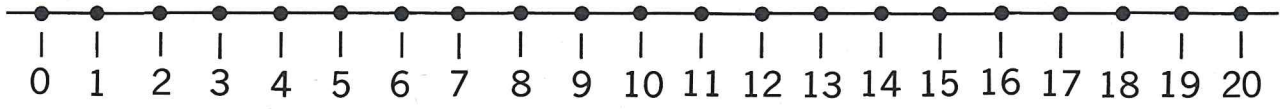
_____

is greater than
>

is less than
<

64 ☐ 54	42 ☐ 47	83 ☐ 81
38 ☐ 48	43 ☐ 50	83 ☐ 85
71 ☐ 81	52 ☐ 50	20 ☐ 14
92 ☐ 62	68 ☐ 66	20 ☐ 19
25 ☐ 15	68 ☐ 70	20 ☐ 22

NAME _____



1, 2, 3, 4, _____	11, 12, 13, 14, _____
5, 6, 7, 8, _____	15, 16, 17, 18, _____
6, 7, 8, 9, _____	16, 17, 18, 19, _____
4, 5, _____, 7, 8	14, 15, _____, 17, 18
7, _____, 9, 10	17, _____, 19, 20
_____, 2, 3, 4	_____, 12, 13, 14
5, _____, 7, _____	15, _____, 17, _____
2, _____, 4, _____	12, _____, 14, _____
_____, 8, 9, _____	_____, 18, 19, _____
3, _____, _____, 6	13, _____, _____, 16
_____, _____, 10	_____, _____, 20
_____, 3, _____	_____, 13, _____
_____, 8, _____, _____	_____, 18, _____, _____

NAME _____

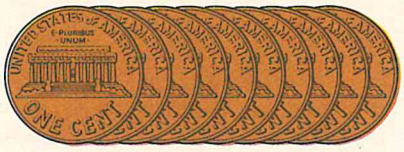
_____ cent

_____ cents

_____ cents

_____

_____



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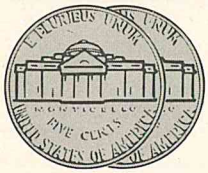

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_____

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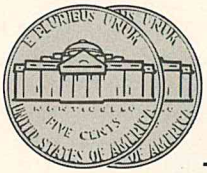

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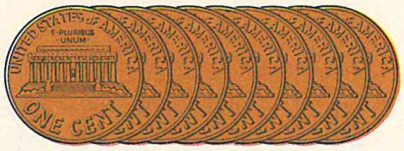

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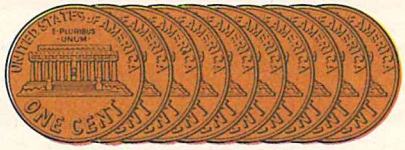
_____



_____

_____

_____

Tell how much money.

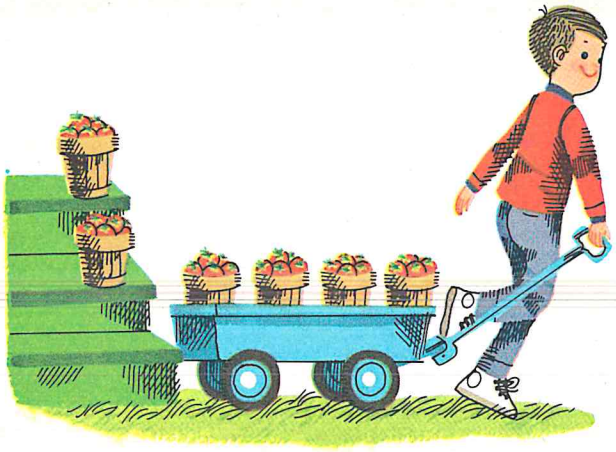
_____ cents

_____ cents

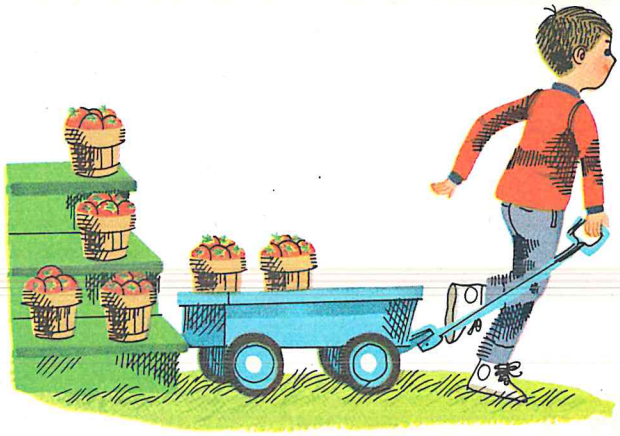
_____ cents

_____ cents

NAME _____



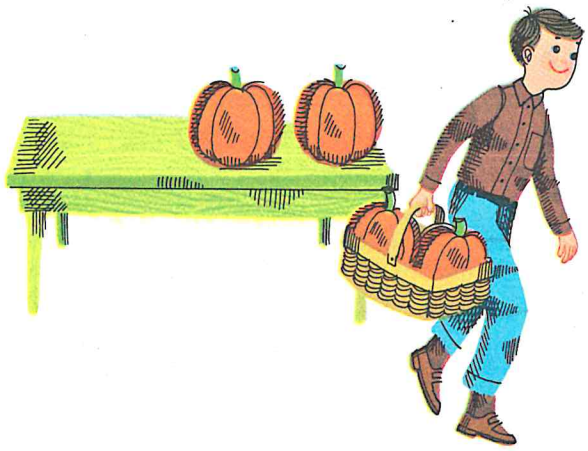
___ – ___ = ___



___ – ___ = ___

___ – ___ = ___

___ – ___ = ___

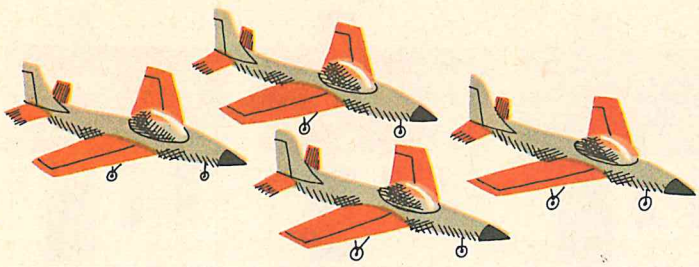


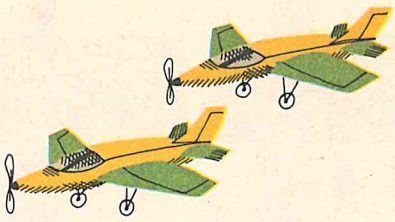
___ – ___ = ___

___ – ___ = ___

NAME _____

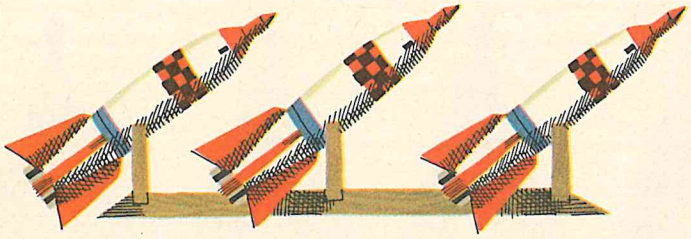
First think of a number story.
Then write the missing numerals.

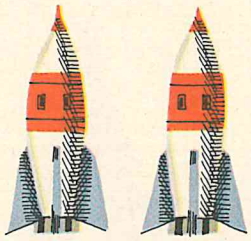




___ - 2 = ___

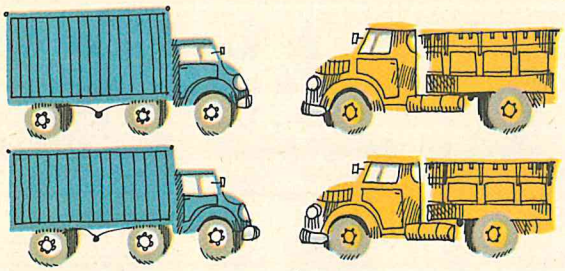
___ - 4 = ___



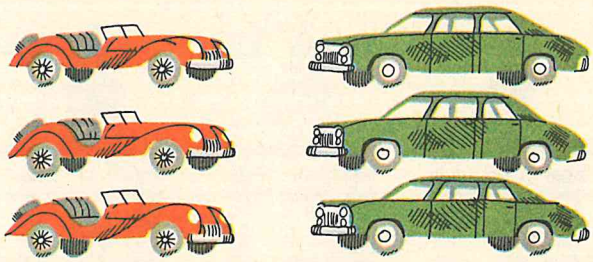


___ - 2 = ___

___ - 3 = ___



___ - ___ = ___



___ - ___ = ___

Write the missing numerals.

5 − 3 = ☐

5 − 2 = ☐

6 − 4 = ☐

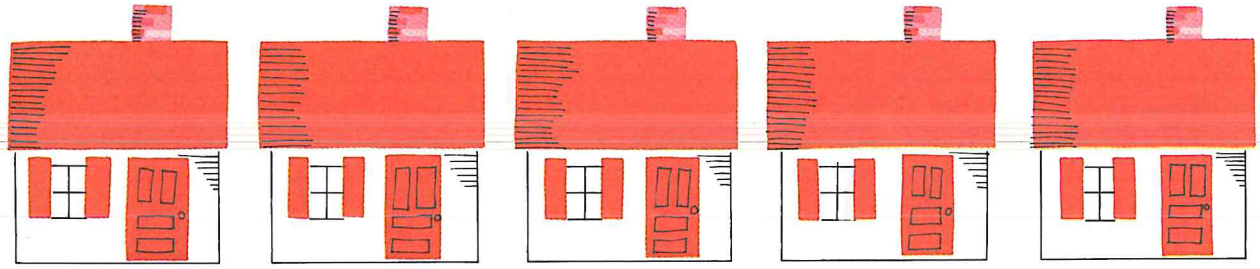
6 − 2 = ☐

4 − 2 = ☐

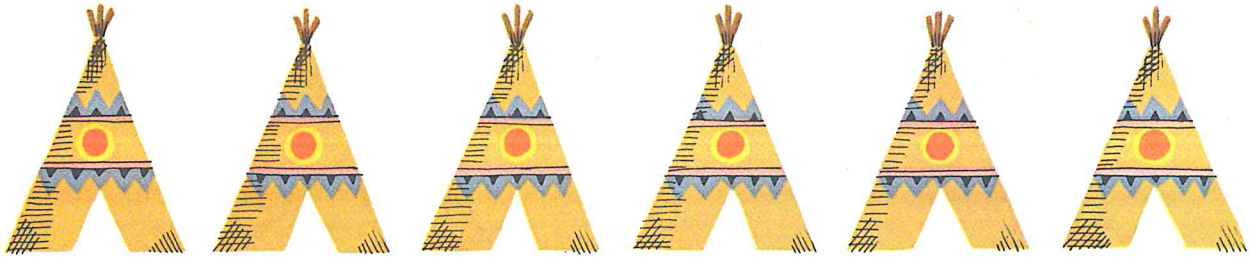
6 − 3 = ☐

NAME _____

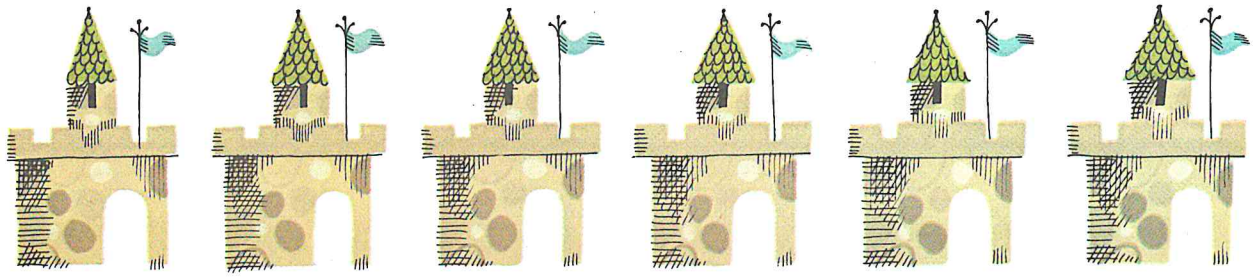
Find how many there are in a picture.
Then write the missing numerals.



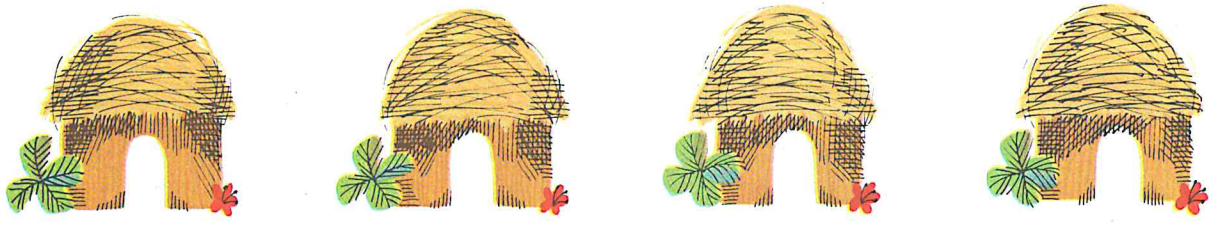
___ - 2 = ___ ___ - 3 = ___



___ - 2 = ___ ___ - 4 = ___

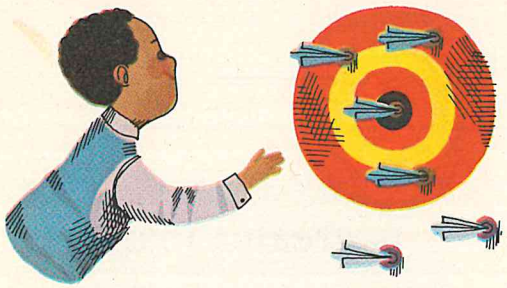


___ - 3 = ___



___ - 2 = ___

NAME _____



Write the number sentence about the dolls. ____ − ____ = ____

Write the number sentence about the boats. ____ − ____ = ____

Write the number sentence about the cars. ____ − ____ = ____

Write the number sentence about the kites. ____ − ____ = ____

Write two more number sentences about the pictures.

____ − ____ = ____ ____ − ____ = ____

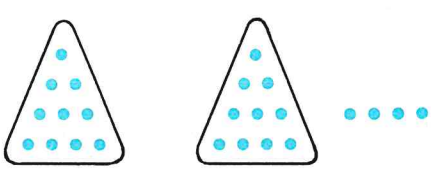
NAME _____

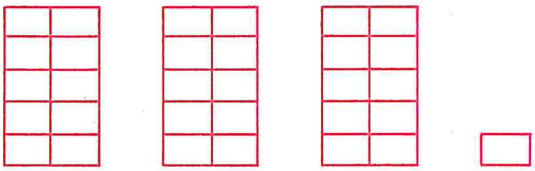
Write the missing numerals.

$4 + 2 = \square$ $\quad 2 + 3 = \square$ $\quad 3 + 3 = \square$

$5 - 3 = \square$ $\quad 6 - 4 = \square$ $\quad 4 - 2 = \square$

$3 + 2 = \square$ $\quad 2 + 2 = \square$ $\quad 6 - 2 = \square$





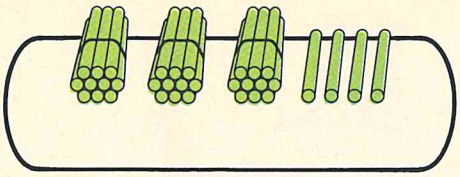
_____ _____

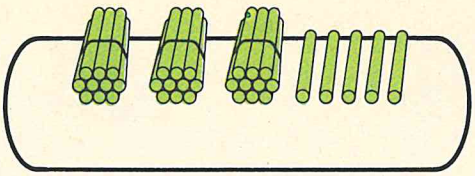
is less than	is greater than
<	>

Write the missing sign, < or >.

34 ☐ 31	42 ☐ 40	25 ☐ 26
45 ☐ 65	73 ☐ 53	92 ☐ 72
59 ☐ 72	91 ☐ 87	68 ☐ 83
74 ☐ 75	99 ☐ 97	81 ☐ 18

NAME _____

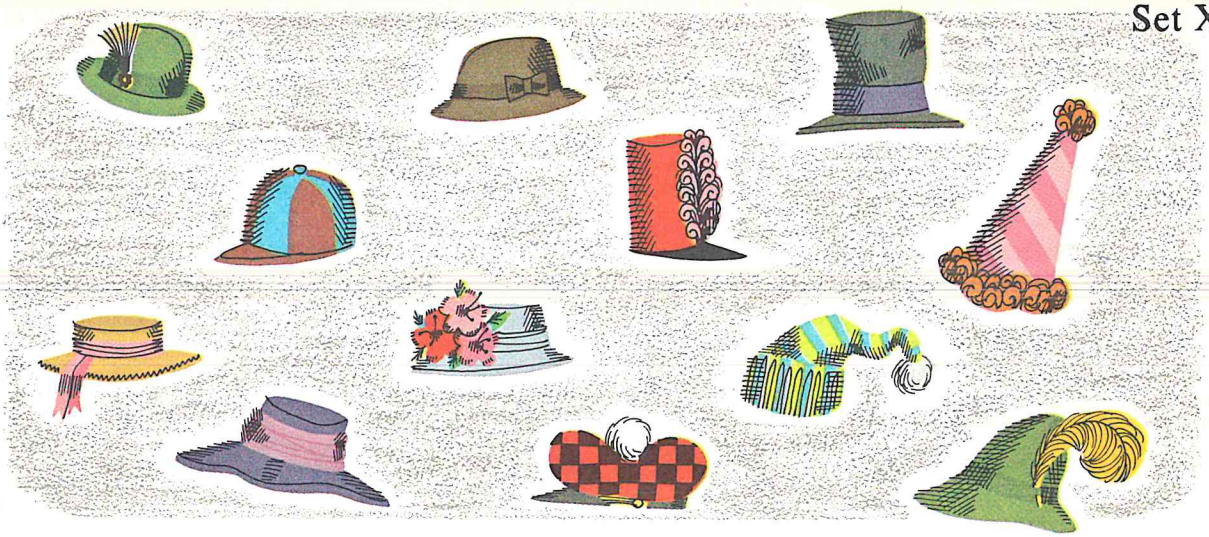




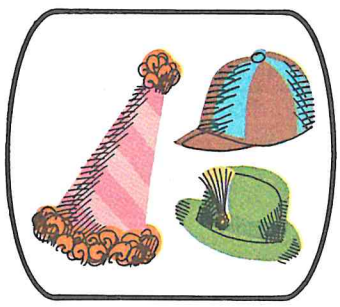
38, 39	42, 43	29, 30
17, ___	36, ___	62, ___
39, ___	54, ___	68, ___
74, ___	47, ___	59, ___
25, ___	52, ___	70, ___
36, ___	63, ___	10, ___
14, ___	41, ___	49, ___
19, ___	91, ___	99, ___

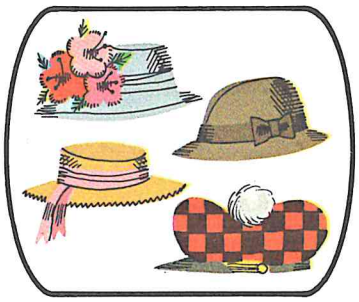
NAME _____

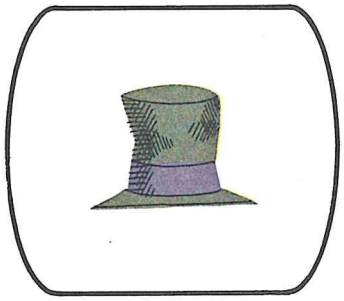
Set X

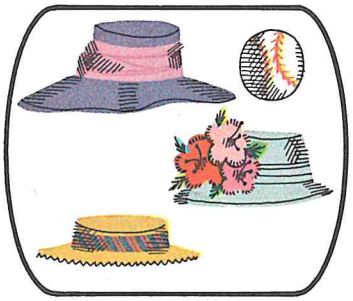


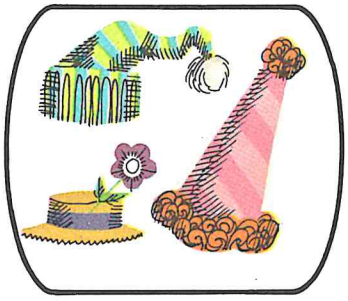
Put a ✓ over the subsets of set X.

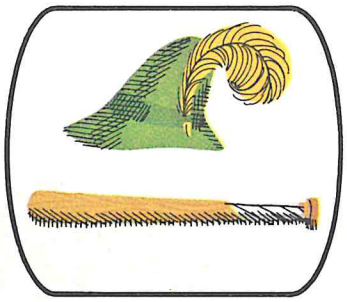


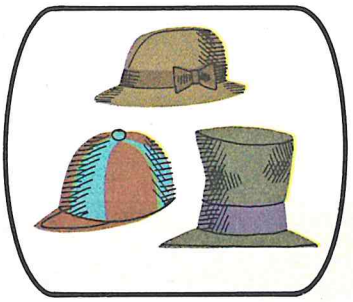






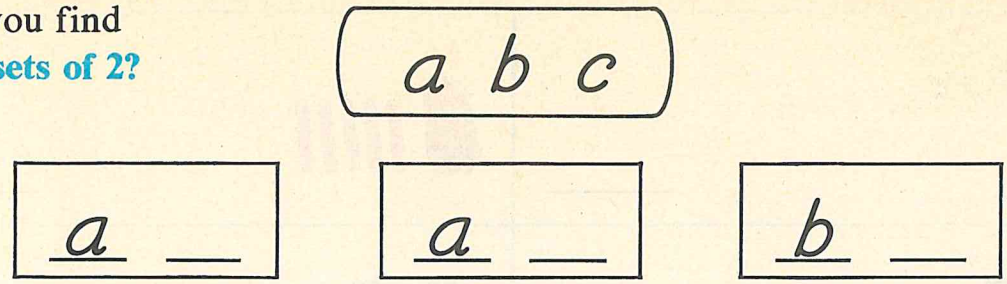




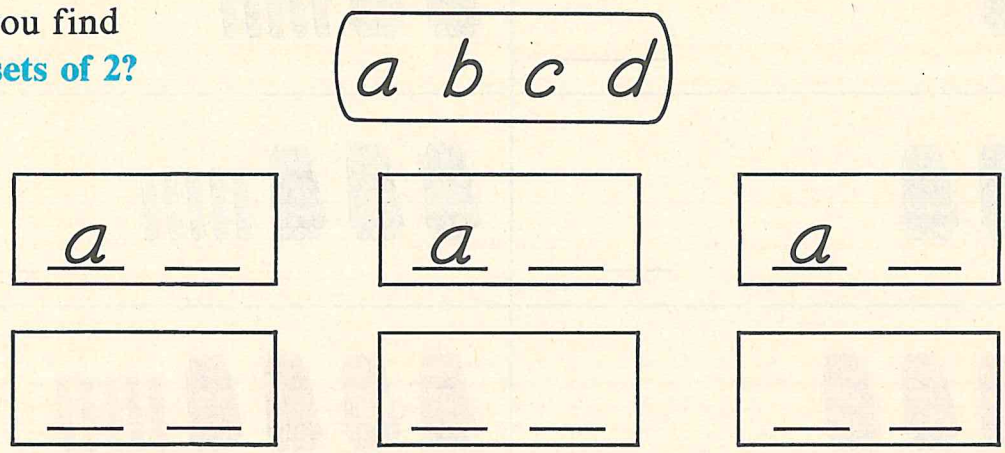


NAME _____

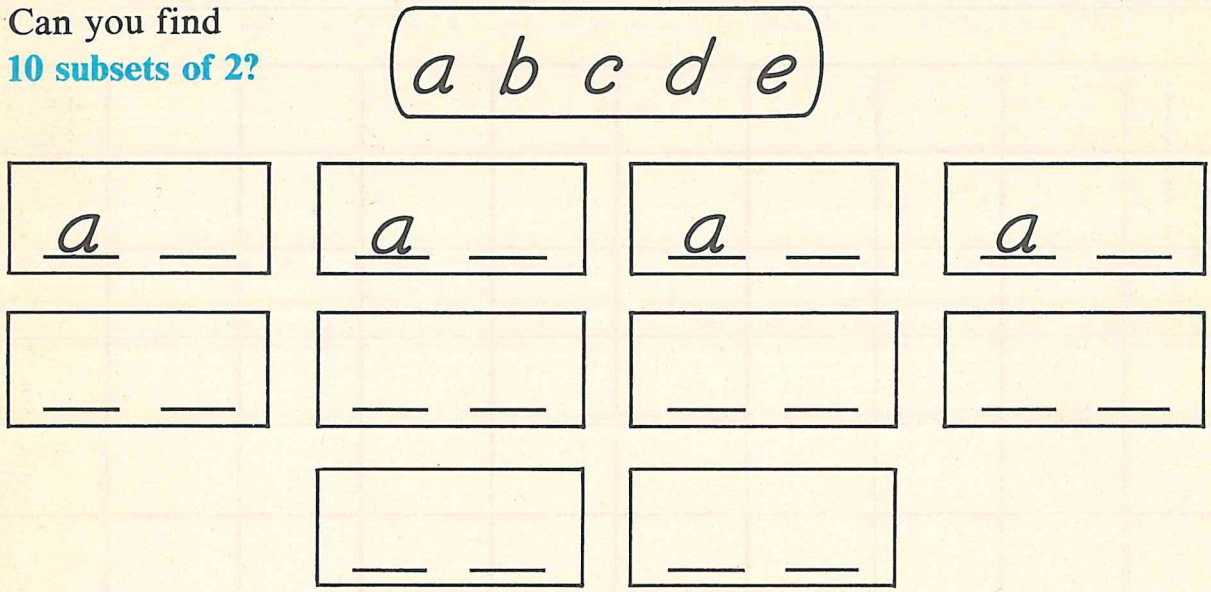
Can you find
3 subsets of 2?



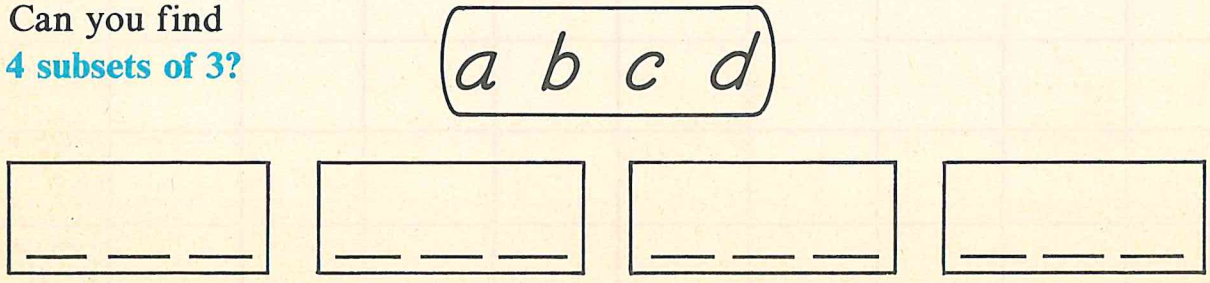
Can you find
6 subsets of 2?



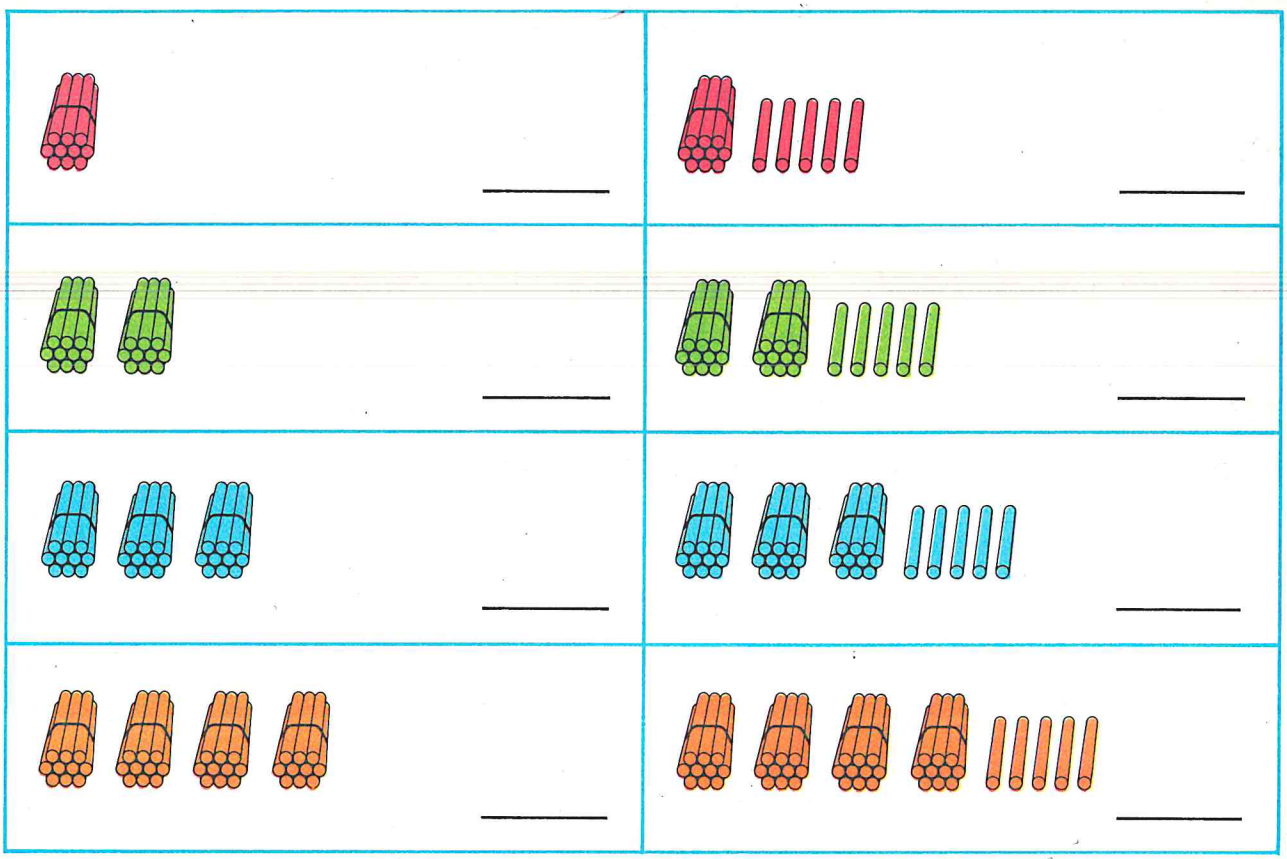
Can you find
10 subsets of 2?



Can you find
4 subsets of 3?



NAME _____



1									10
11									
									100

NAME _____

___ + ___ = ___

2 + ___ = ___

___ + ___ = ___

3 + ___ = ___

___ + ___ = ___

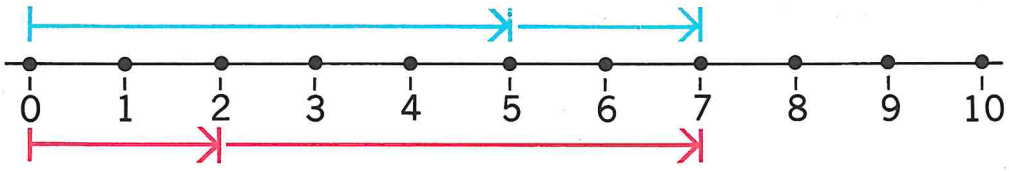
2 + ___ = ___

___ + ___ = ___

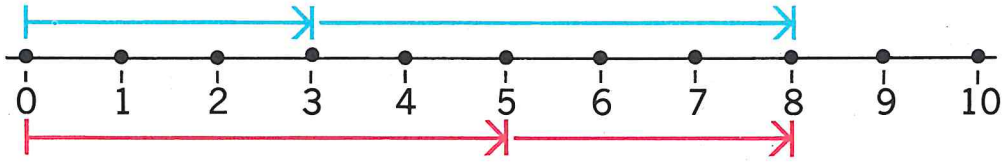
3 + ___ = ___

___ + ___ = ___

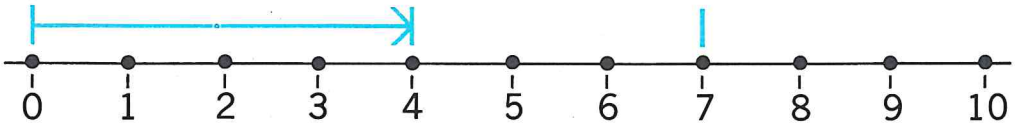
NAME _____



$5 + 2 = \square$ $2 + 5 = \square$



$3 + 5 = \square$ $5 + 3 = \square$



$4 + \square = 7$ $\square + 4 = 7$

$4 + \square = 6$ $3 + \square = 7$

$4 + \square = 8$ $6 + \square = 8$

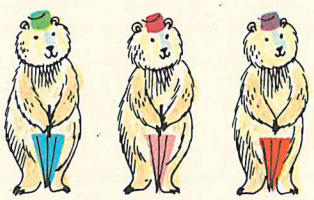
$2 + \square = 4$ $3 + \square = 5$

$2 + \square = 6$ $3 + \square = 6$

NAME _____

___ – ___ = ___

___ – 5 = ___

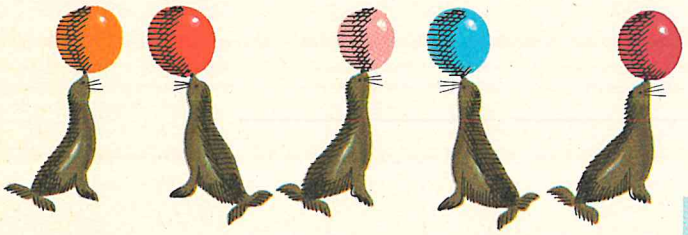


___ – ___ = ___

___ – 4 = ___

___ – ___ = ___

___ – 6 = ___

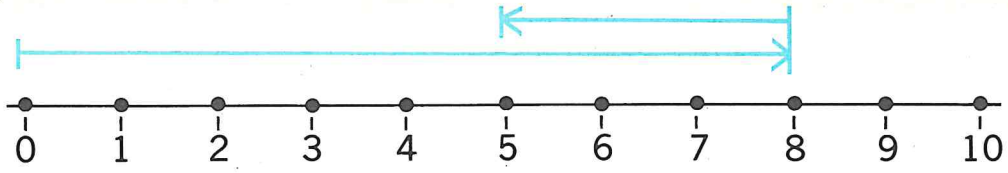


___ – ___ = ___

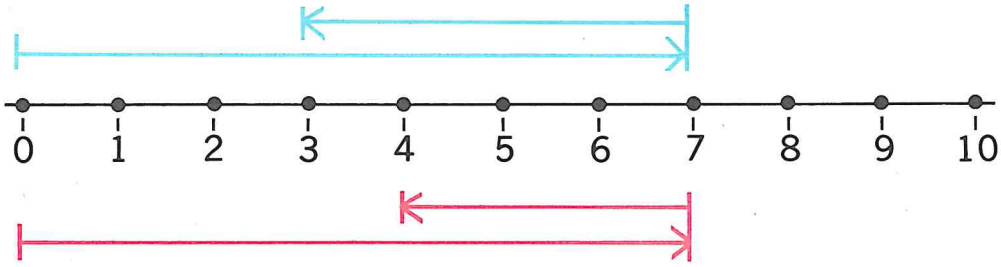
___ – 5 = ___

___ – ___ = ___

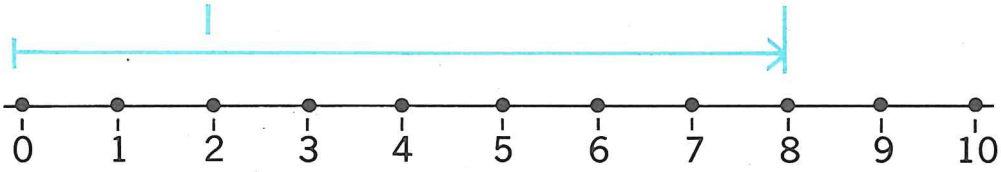
NAME _____



$8 - 3 = \square$ $8 - 5 = \square$



$7 - 4 = \square$ $7 - 3 = \square$



$8 - \square = 2$

$7 - \square = 5$ $6 - \square = 2$

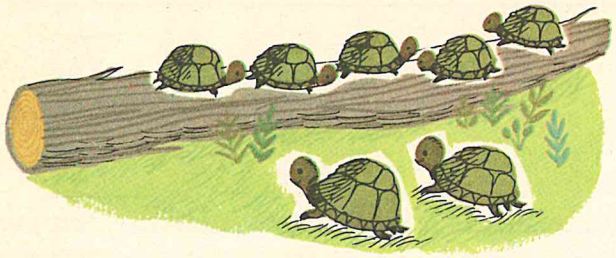
$8 - \square = 3$ $4 - \square = 2$

$7 - \square = 2$ $6 - \square = 3$

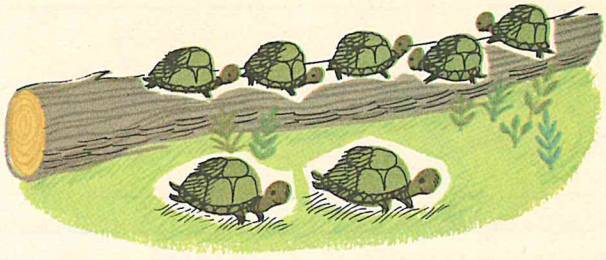
$8 - \square = 4$ $5 - \square = 3$

NAME _____

First think of the number story that each picture shows.
Then write the missing numerals and the sign.



___ ___ = ___

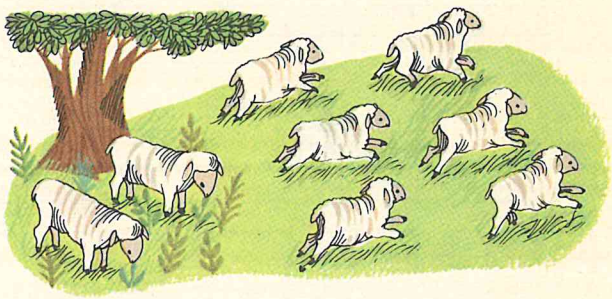


___ ___ = ___

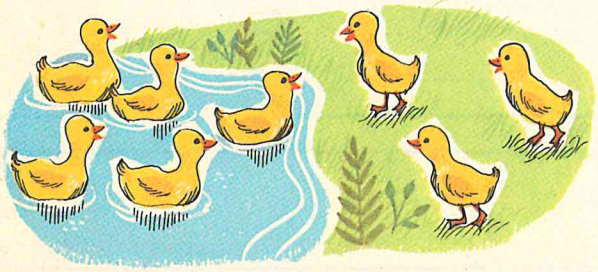
___ ___ = ___

___ ___ = ___

___ ___ = ___



___ ___ = ___

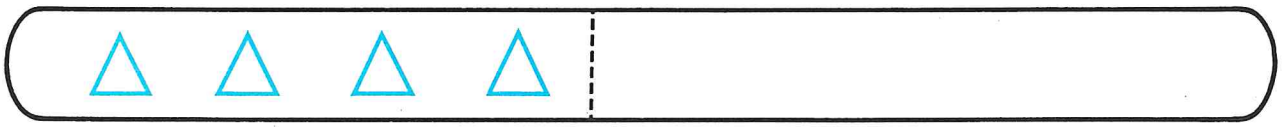


___ ___ = ___

___ ___ = ___

NAME _____

Draw more to make a set of 7.

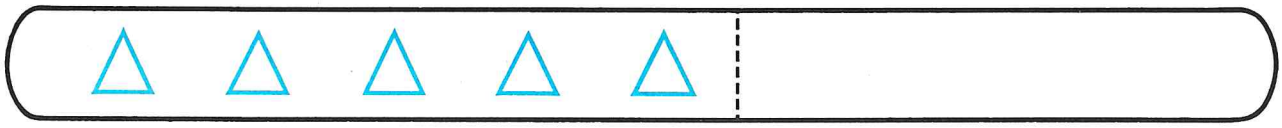


___ + ___ = 7

___ − 3 = ___

___ + ___ = 7

___ − 4 = ___



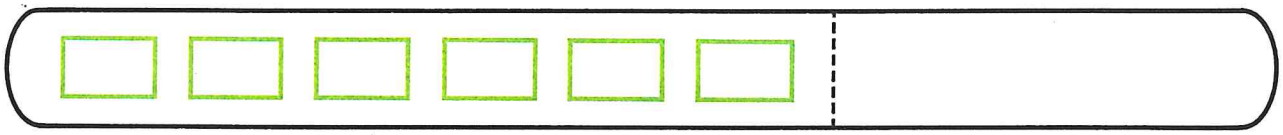
___ + ___ = 7

___ − 2 = ___

___ + ___ = 7

___ − 5 = ___

Draw more to make a set of 8.

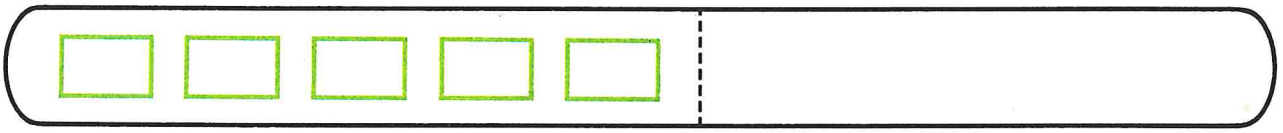


___ + ___ = 8

___ − 2 = ___

___ + ___ = 8

___ − 6 = ___

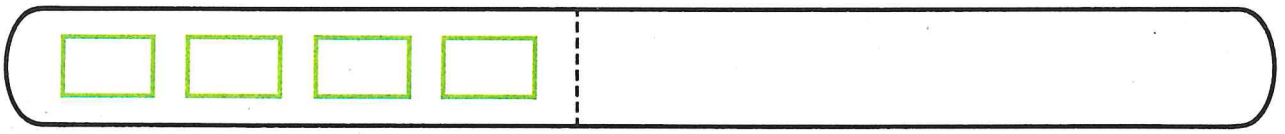


___ + ___ = 8

___ − 3 = ___

___ + ___ = 8

___ − 5 = ___



___ + ___ = 8

___ − 4 = ___

NAME _____

is less than <	equals =	is greater than >

8 ☐ 6

4 + 4 ☐ 6

5 + 3 ☐ 3 + 3

5 ☐ 7

5 ☐ 3 + 4

2 + 3 ☐ 5 + 2

6 ☐ 5

2 + 4 ☐ 2 + 3

3 + 3 ☐ 4 + 2

6 ☐ 7

2 + 4 ☐ 4 + 3

3 + 3 ☐ 5 + 2

6 + 2 ☐ 7

4 + 3 ☐ 8

2 + 2 ☐ 5

3 + 3 ☐ 6

3 + 4 ☐ 4 + 3

4 ☐ 5

6 ☐ 2 + 2

8 ☐ 4 + 2

7 ☐ 4 + 3

2 + 6 ☐ 4 + 4

NAME _____

Find what the number story is for each picture.
Then write the number sentence.

___ ___ = ___

___ ___ = ___

___ ___ = ___

___ ___ = ___

___ ___ = ___

___ ___ = ___

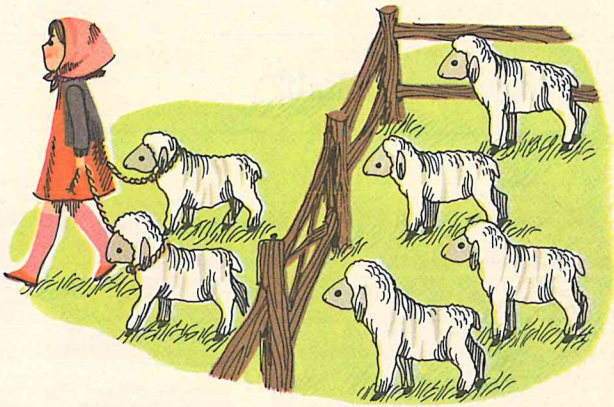
NAME _____

First, see if you can tell the number story.
Then write the number sentence.

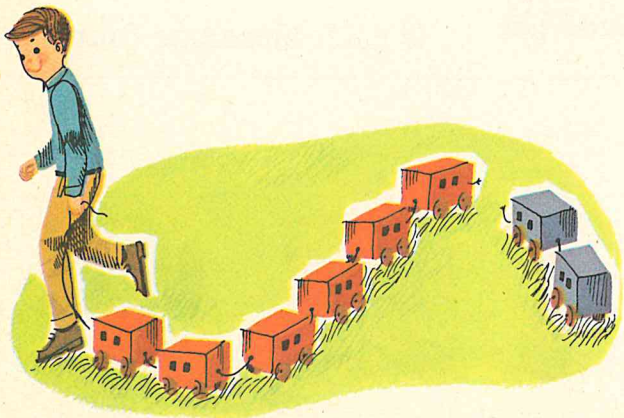
___ ___ = ___

___ ___ = ___

___ ___ = ___



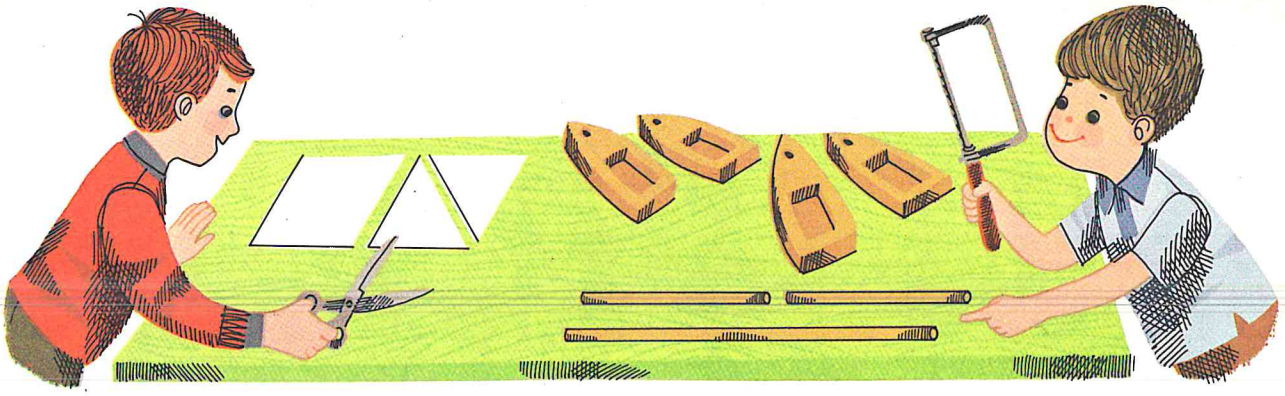
___ ___ = ___



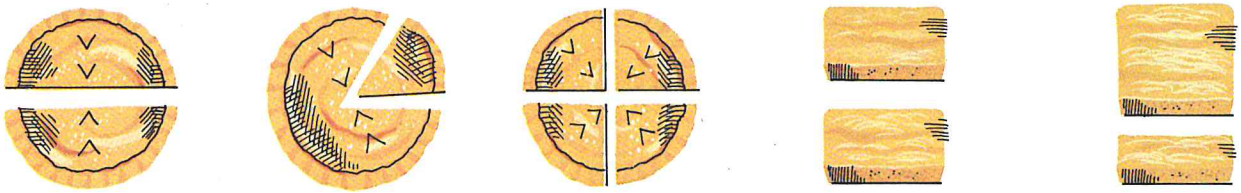
___ ___ = ___

___ ___ = ___

NAME _____

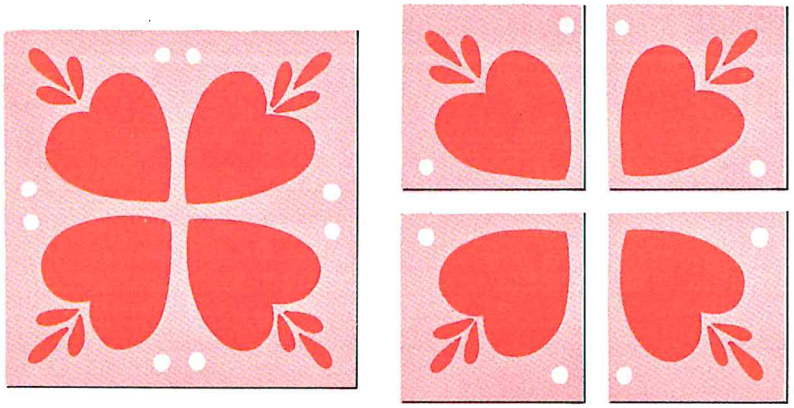


How many pieces?

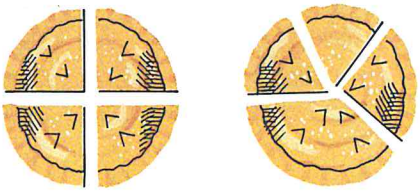


_____ _____ _____ _____ _____

Is each piece one half?



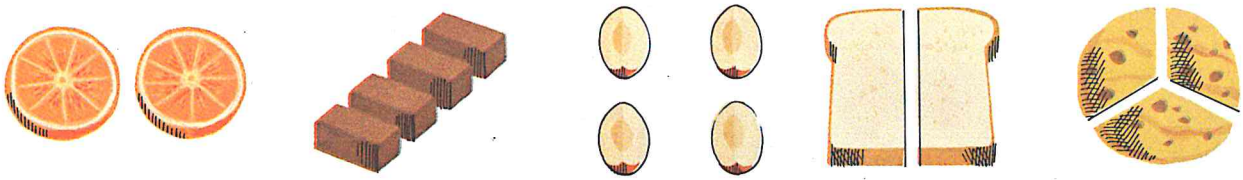
How many pieces?



_____ _____

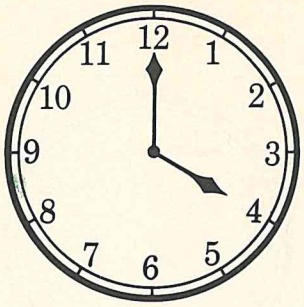
Is each piece one fourth?

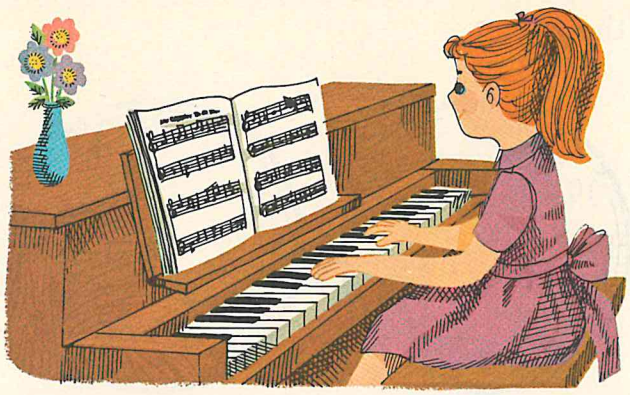
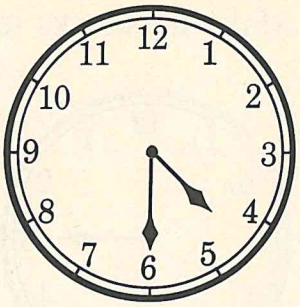
Make a ✻ below the pictures of halves.
Make a ✓ below the pictures of fourths.



_____ _____ _____ _____ _____

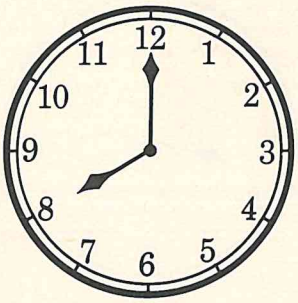
NAME _____



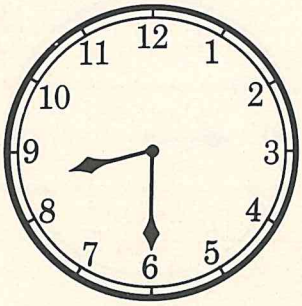
_____ o'clock



half past _____

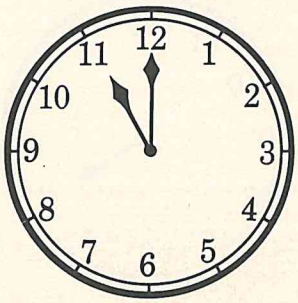
What time is it?



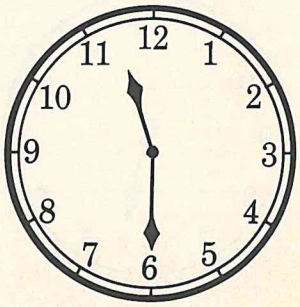
_____ o'clock



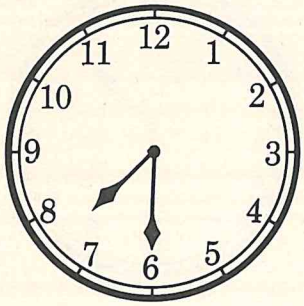
half past _____



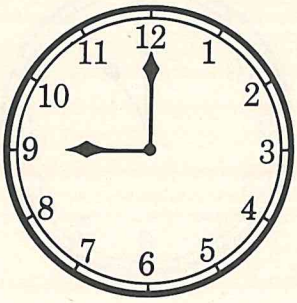
_____ o'clock



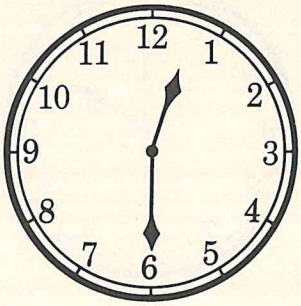
half past _____



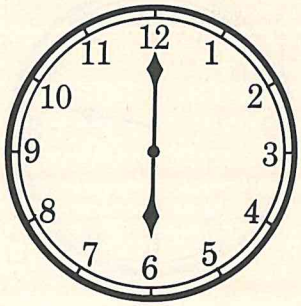
half past _____



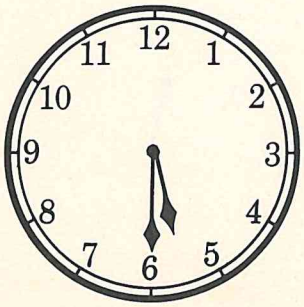
_____ o'clock



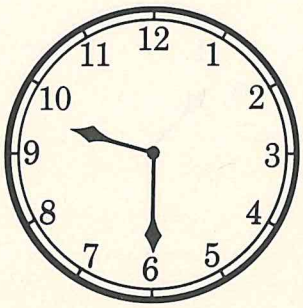
half past _____



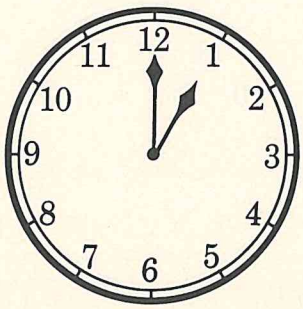
_____ o'clock



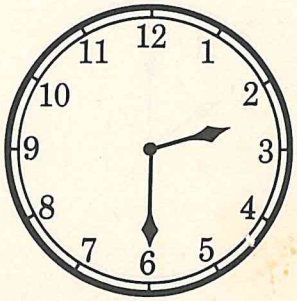
half past _____



half past _____



_____ o'clock



half past _____

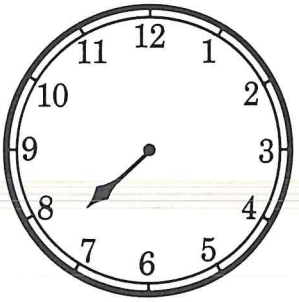
NAME _____

Make the clocks tell the time.

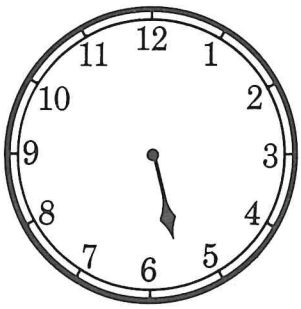
3 o'clock

half past 3

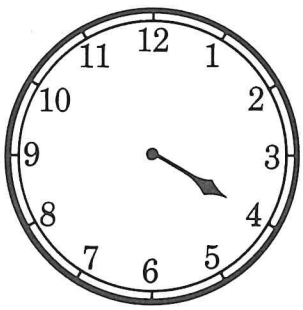
7 o'clock



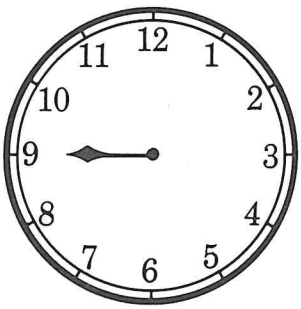
half past 7



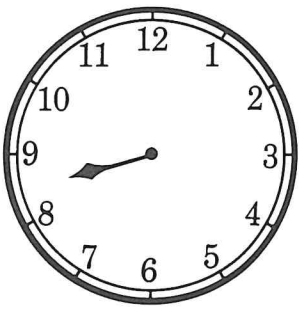
half past 5



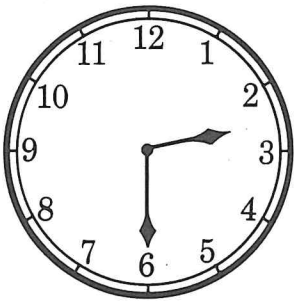
4 o'clock



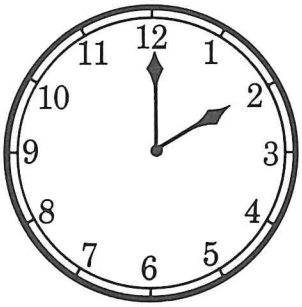
9 o'clock



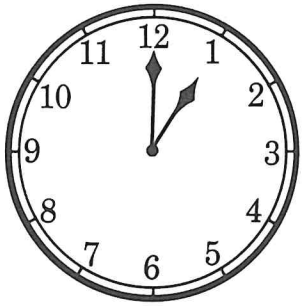
half past 8



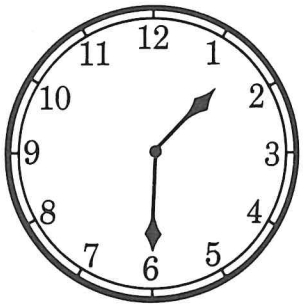
2 o'clock



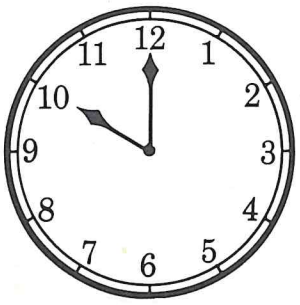
half past 2



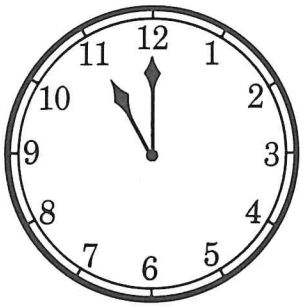
half past 1



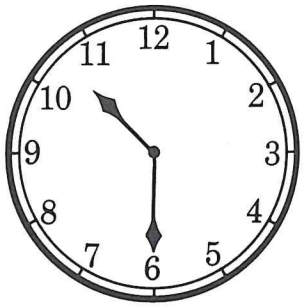
1 o'clock



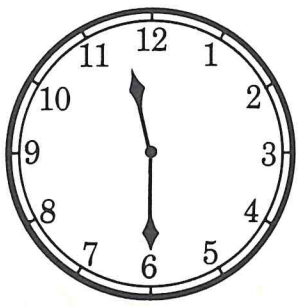
half past 10



10 o'clock

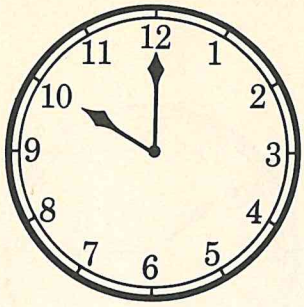


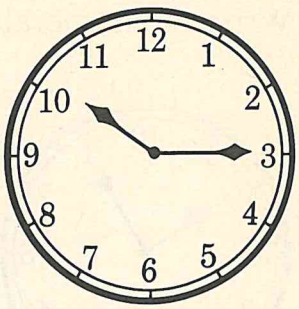
11 o'clock



half past 11

NAME _____

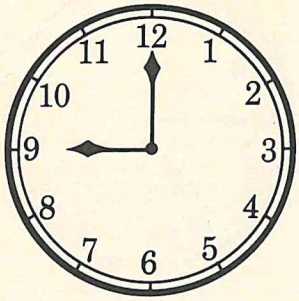




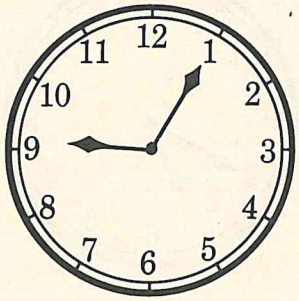
_____ o'clock

_____ minutes past _____

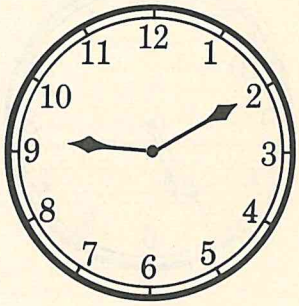
Write the numerals that tell what time the clocks show.



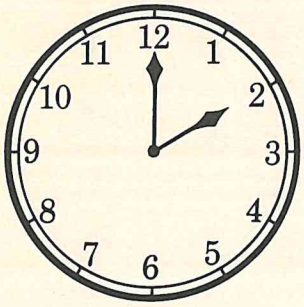
_____ o'clock



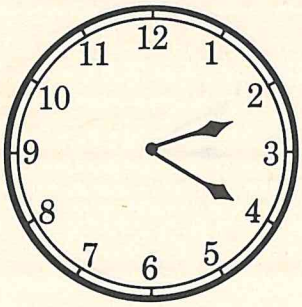
_____ minutes past _____



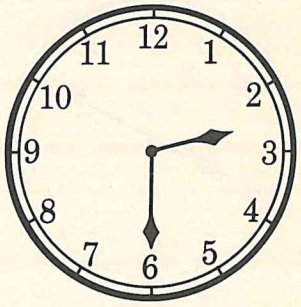
_____ minutes past _____



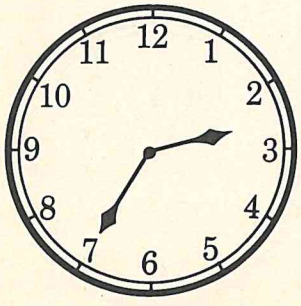
_____ o'clock



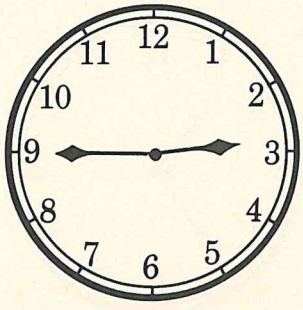
_____ minutes past _____



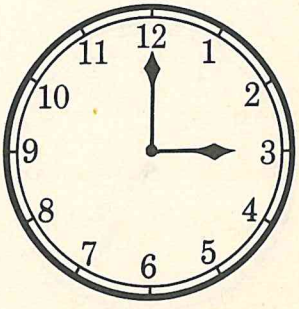
half past _____



_____ minutes to _____



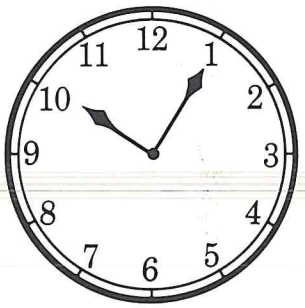
_____ minutes to _____



_____ o'clock

NAME _____

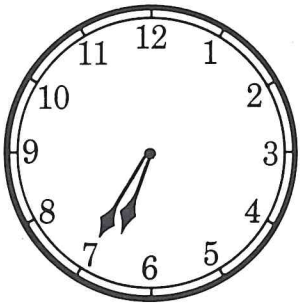
Write the numerals that tell what time the clocks show.



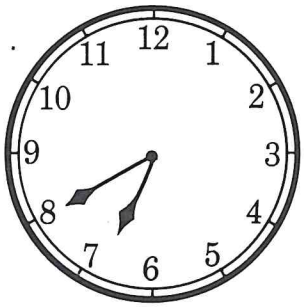
____ minutes past ____

____ minutes past ____

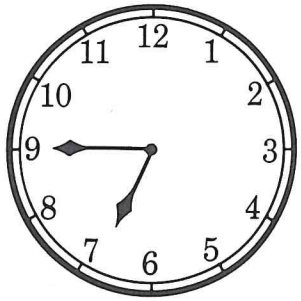
____ minutes past ____



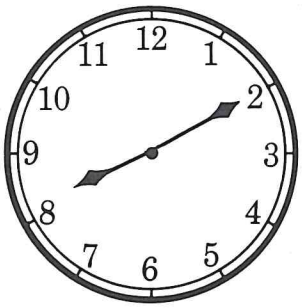
____ minutes to ____



____ minutes to ____

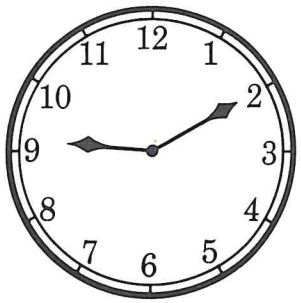


____ minutes to ____



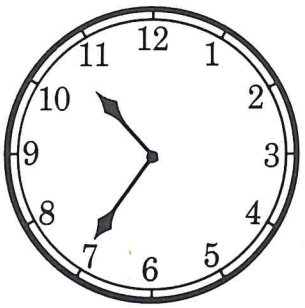
____ minutes past ____

____ minutes to ____

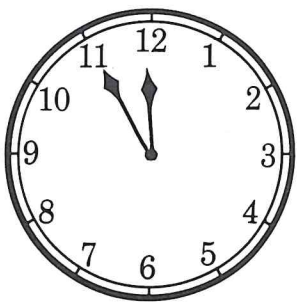


____ minutes past ____

____ minutes past ____



____ minutes to ____



____ minutes to ____

NAME _____

Names for 6
4 + 2
3 + 2 + 1
8 − 2

Names for 7

Names for 8

$4 + 1 = 3 + \square$

$3 + 3 = 2 + \square$

$5 + \square = 4 + 3$

$\square + 1 = 2 + 5$

$6 - 2 = 2 + \square$

$8 - 3 = 4 + \square$

$8 - 4 = 7 - \square$

$7 - \square = 1 + 1$

$8 - \square = 2 + 2$

$8 - \square = 3 + 3$

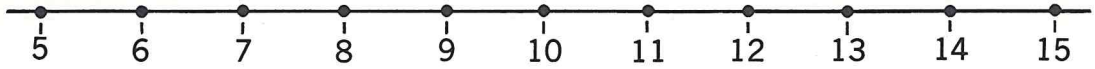
$\square - 2 = 3 + 2$

$6 + 2 = 2 + \square$

$5 + 4 = \square + 5$

$7 + \square = 3 + 7$

NAME _____



Numbers less than 12

Numbers greater than 7

Numbers in both sets

Numbers less than 11

Numbers greater than 8

Numbers in both sets

Numbers less than 13

Numbers greater than 11

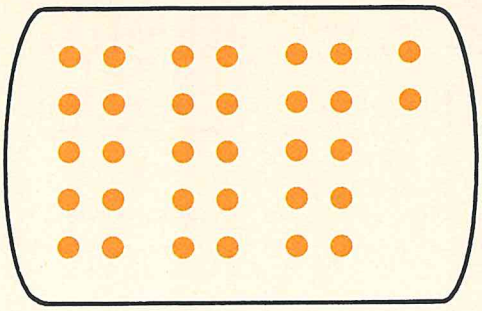
Numbers in both sets

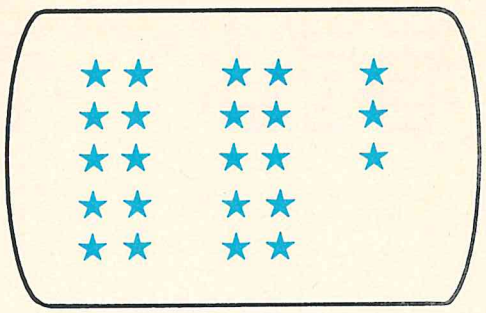
Numbers less than 8

Numbers greater than 6

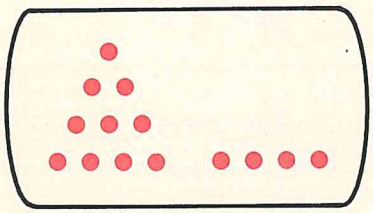
Numbers in both sets

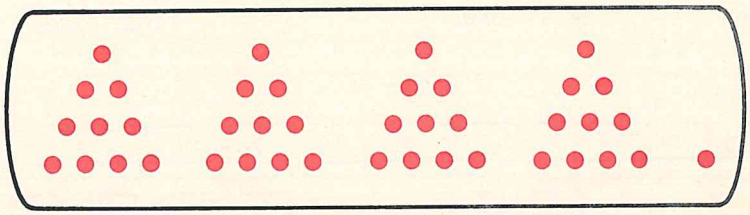
NAME _____





_____ ☐ _____



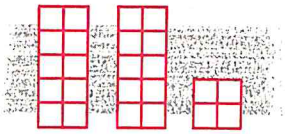


_____ ☐ _____

Write the missing sign, $<$ or $>$.

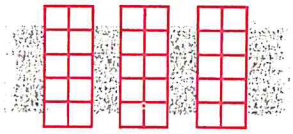
28 ☐ 82	50 ☐ 51	88 ☐ 87
34 ☐ 43	59 ☐ 60	67 ☐ 65
75 ☐ 57	61 ☐ 60	19 ☐ 21
64 ☐ 46	90 ☐ 92	12 ☐ 20
95 ☐ 59	99 ☐ 98	100 ☐ 99

NAME _____

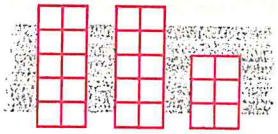


tens ones

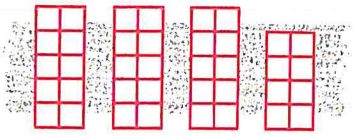
2 4



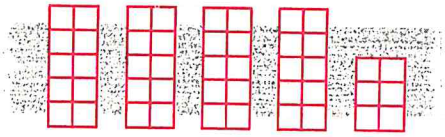
tens ones



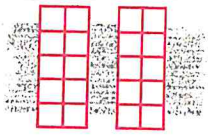
tens ones



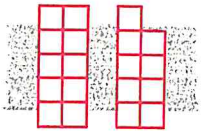
tens ones



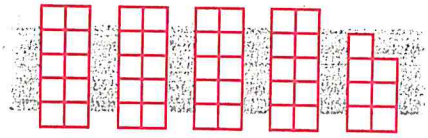
tens ones



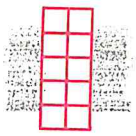
tens ones



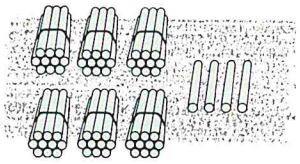
tens ones



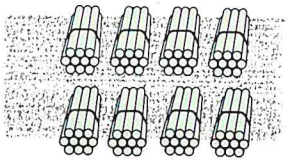
tens ones



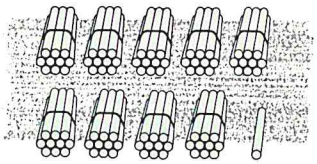
tens ones



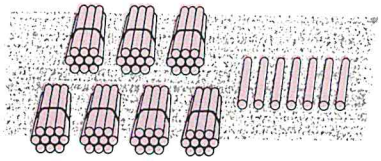
tens ones



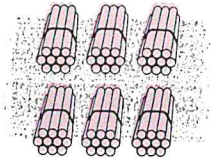
tens ones



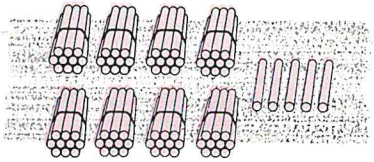
tens ones



tens ones



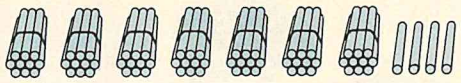
tens ones



tens ones

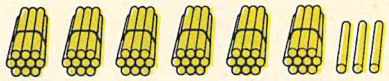
NAME _____

Write the missing numerals.



74 is 7 tens, 4 ones.

74 = 70 + 4



63 is 6 tens, 3 ones.

63 = 60 + 3

36 is 3 tens, ____ ones.

36 = ____ + ____

52 is 5 tens, ____ ones.

52 = ____ + ____

67 is 6 tens, ____ ones.

67 = ____ + ____

23 is 2 tens, ____ ones.

23 = ____ + ____

45 is ____ tens, ____ ones.

45 = ____ + ____

89 is ____ tens, ____ ones.

89 = ____ + ____

14 is ____ ten, ____ ones.

14 = ____ + ____

58 is ____ tens, ____ ones.

58 = ____ + ____

66 is ____ tens, ____ ones.

66 = ____ + ____

29 is ____ tens, ____ ones.

29 = ____ + ____

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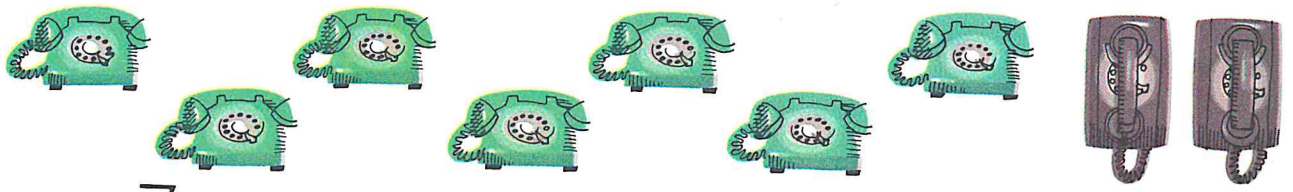
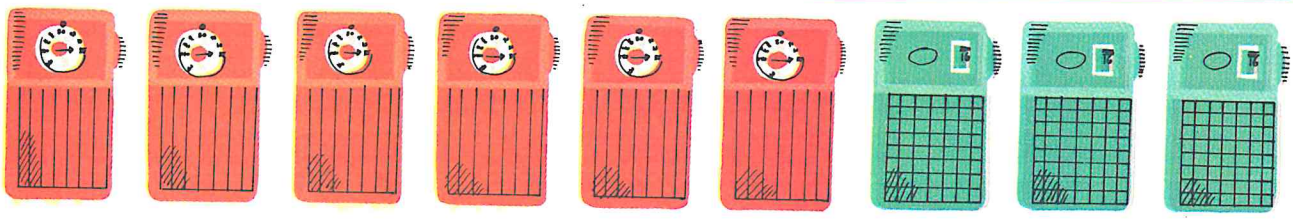
The pictures show what John and Tom saw on Monday.



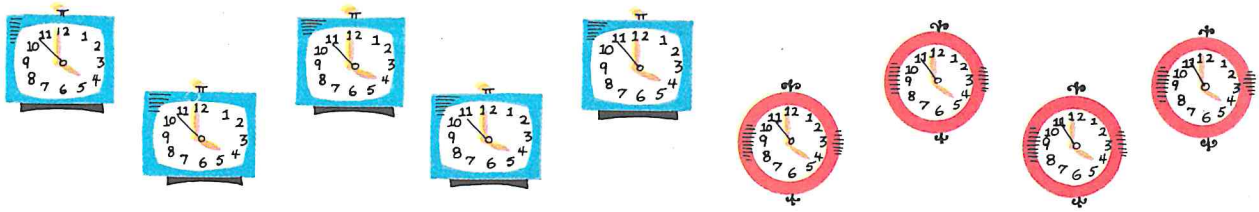
7 + ___ = ___ ___ + ___ = ___

___ − 2 = ___ ___ − 7 = ___



6 + ___ = ___ ___ + ___ = ___

___ − 3 = ___ ___ − 6 = ___



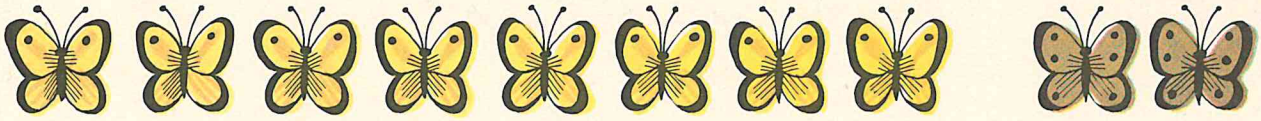
5 + ___ = ___ ___ + ___ = ___

___ − 4 = ___ ___ − 5 = ___

7	2	9	9	6	3	9	9	5	4
+2	+7	−2	−7	+3	+6	−3	−6	+4	+5
9	9	4	7	8	5	8	5	3	7
−4	−5	+4	−4	−2	+3	−4	+2	+4	−5

NAME _____

These pictures show some things Mary saw on Tuesday.



8 + ___ = ___ ___ + ___ = ___

___ − 2 = ___ ___ − 8 = ___

7 + ___ = ___ ___ + ___ = ___

___ − 3 = ___ ___ − 7 = ___

6 + ___ = ___ ___ + ___ = ___

___ − 4 = ___ ___ − 6 = ___

___ + ___ = ___ ___ − ___ = ___

5	10	6	4	10	10	7	3	10	10
+5	−5	+4	+6	−4	−6	+3	+7	−3	−7

8	2	10	10	2	8	3	9	2	9
+2	+8	−2	−8	+5	−3	+6	−2	+6	−4

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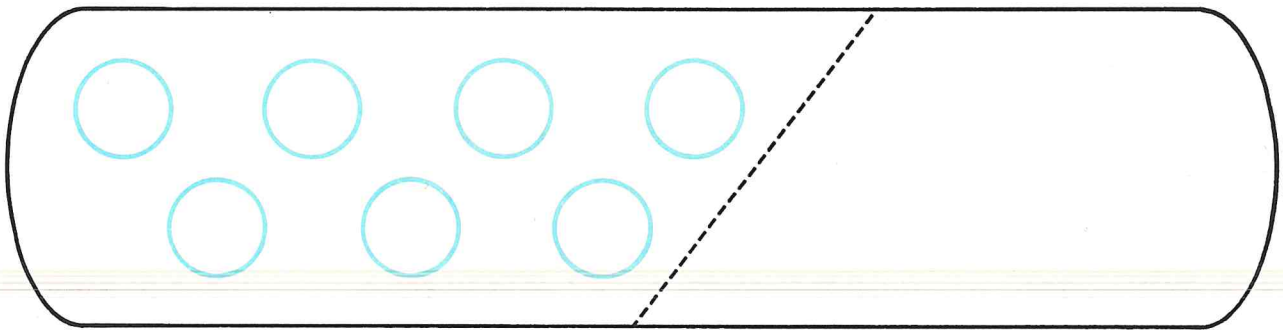
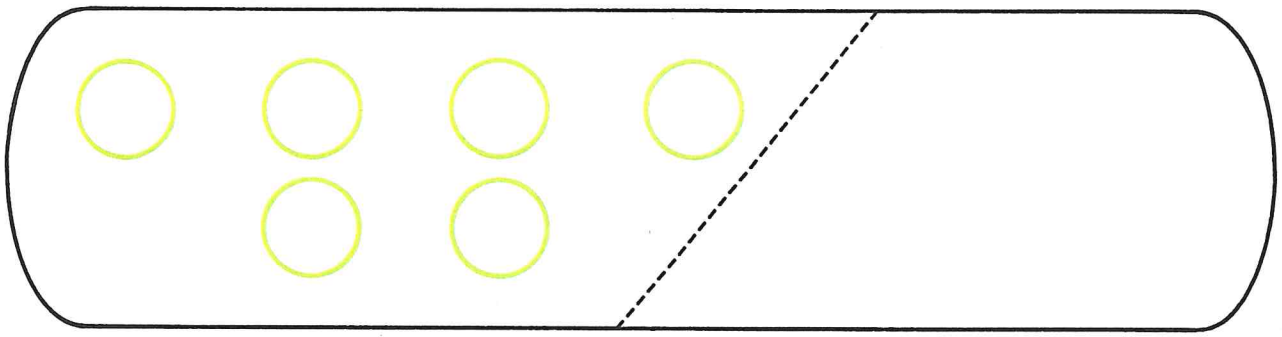


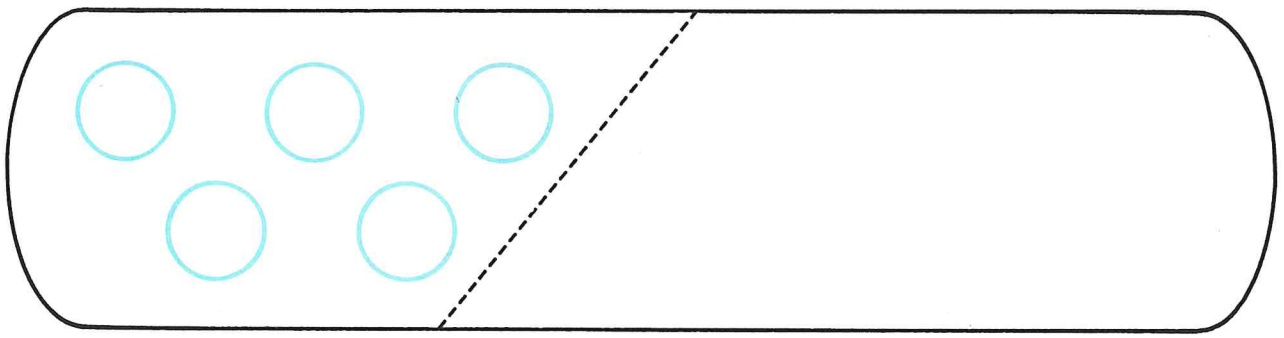
___ + ___ = 9
___ − 2 = ___

___ + ___ = 9
___ − 7 = ___



___ + ___ = 9
___ − 3 = ___

___ + ___ = 9
___ − 6 = ___



___ + ___ = 9
___ − 4 = ___

___ + ___ = 9
___ − 5 = ___

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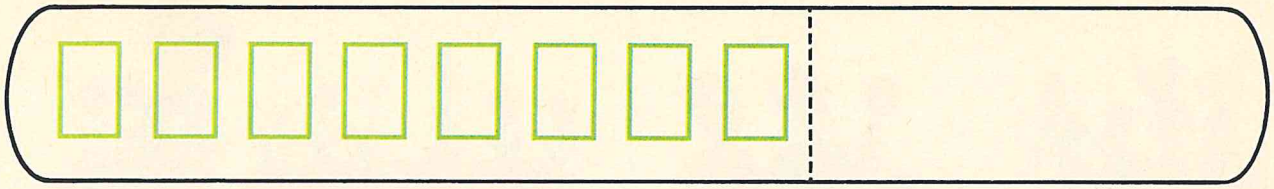
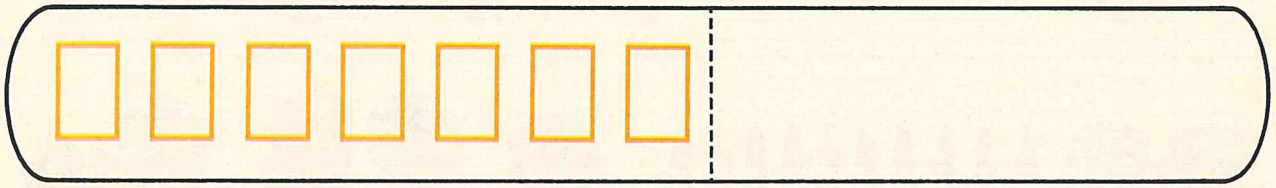


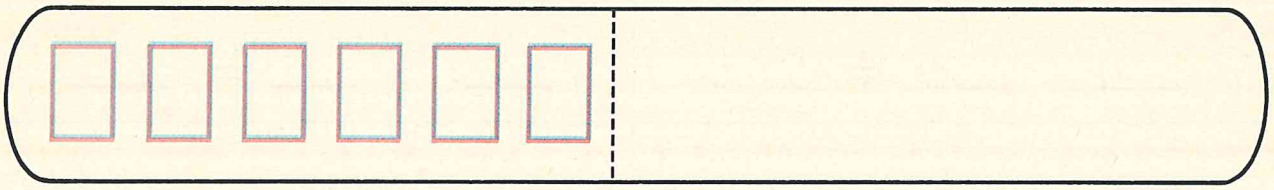
___ + ___ = 10
___ − 2 = ___

___ + ___ = 10
___ − 8 = ___



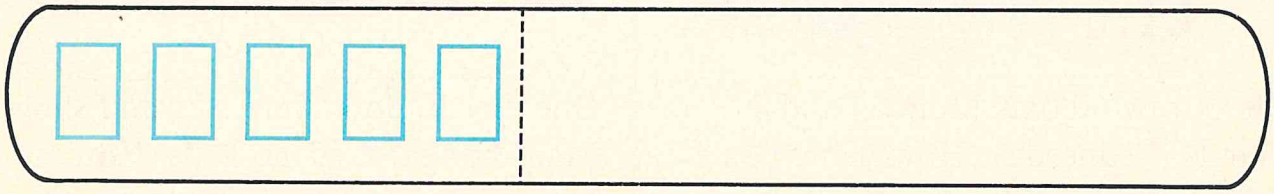
___ + ___ = 10
___ − 3 = ___

___ + ___ = 10
___ − 7 = ___



___ + ___ = 10
___ − 4 = ___

___ + ___ = 10
___ − 6 = ___



___ + ___ = 10

___ − 5 = ___

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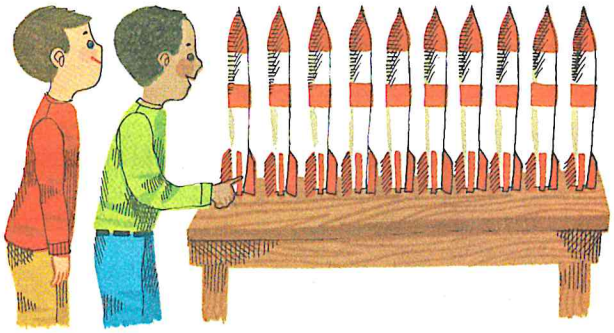
___ ___ = ___

___ ___ = ___



___ ___ = ___

___ ___ = ___

John saw 6 boats Monday and 4 boats Wednesday. How many boats did John see in the two days?

___ ___ = ___

One day 10 dolls were in a doll show. Mary bought 2 of the dolls. How many dolls were in the show then?

___ ___ = ___

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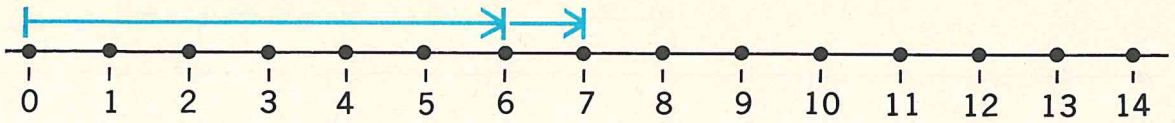
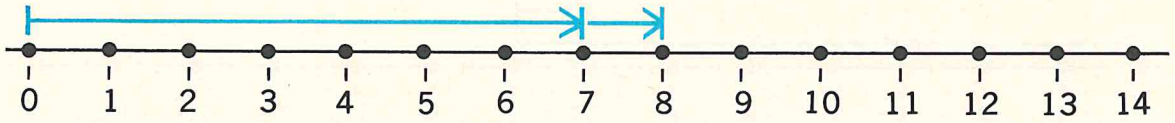
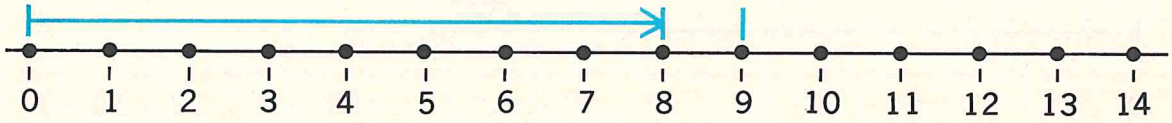


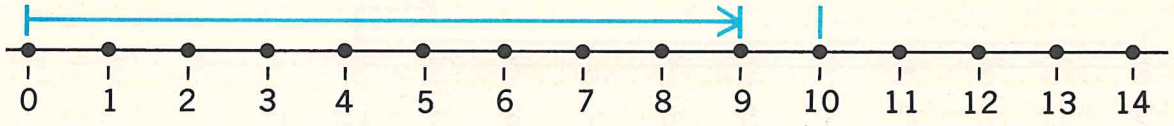
$6 + 1 =$ ☐ $1 + 6 =$ ☐



$7 + 1 =$ ☐ $1 + 7 =$ ☐



$8 + 1 =$ ☐ $1 + 8 =$ ☐



$9 + 1 =$ ☐ $1 + 9 =$ ☐

Write the missing numerals.
If you need help in the last row, make pictures.

6	1	7	1	8	1	9	1
+1	+6	+1	+7	+1	+8	+1	+9
2	1	3	1	4	1	5	1
+1	+2	+1	+3	+1	+4	+1	+5

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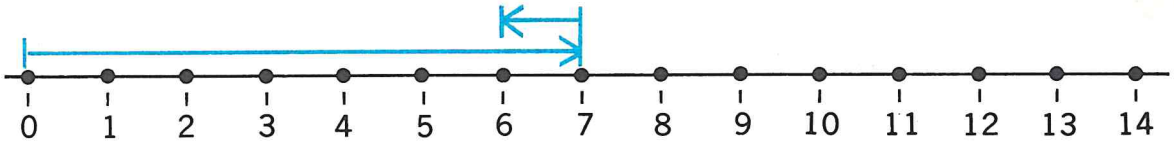
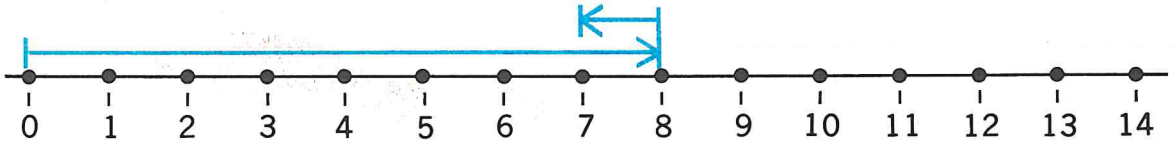
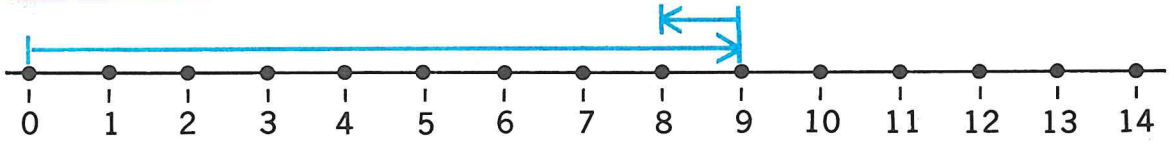


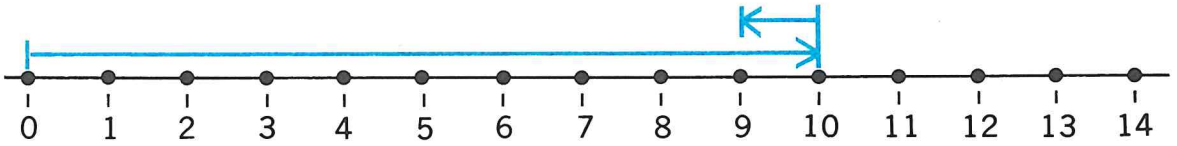
$7 - 1 =$ ☐ $7 - 6 =$ ☐



$8 - 1 =$ ☐ $8 - 7 =$ ☐



$9 - 1 =$ ☐ $9 - 8 =$ ☐



$10 - 1 =$ ☐ $10 - 9 =$ ☐

Write the missing numerals.
If you need help in the last row, make pictures.

7	7	8	8	9	9	10	10
$-\ 1$	$-\ 6$	$-\ 1$	$-\ 7$	$-\ 1$	$-\ 8$	$-\ 1$	$-\ 9$
3	3	4	4	5	5	6	6
$-\ 1$	$-\ 2$	$-\ 1$	$-\ 3$	$-\ 1$	$-\ 4$	$-\ 1$	$-\ 5$

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Read the number sentences.
Write the missing numerals.

$6 + \square = 10$	$10 - \square = 6$	$7 + \bigcirc = 8$	$8 - \bigcirc = 7$
$2 + \square = 8$	$8 - \square = 2$	$\pentagon + 3 = 10$	$10 - 3 = \pentagon$
$\triangle + 4 = 6$	$6 - 4 = \triangle$	$5 + 5 = \square$	$\square - 5 = 5$
$\bigcirc - 4 = 6$	$6 + 4 = \bigcirc$	$\square - 2 = 7$	$7 + 2 = \square$

$9 - \square = 5$	$4 + \bigcirc = 7$	$\square - 6 = 3$	$\triangle + 1 = 8$
$\square + 1 = 10$	$\square - 6 = 1$	$\square - 4 = 5$	$3 + \pentagon = 9$
$7 - \triangle = 2$	$1 + \square = 9$	$7 - \bigcirc = 6$	$4 + 3 = \square$
$\square + 1 = 7$	$\pentagon - 3 = 6$	$5 + \square = 7$	$\square - 9 = 1$

Think what the signs tell you to do.
Write the missing numerals.

7	9	1	7	2	3	6	8	5	7
$+1$	-4	$+9$	-3	$+5$	$+3$	-1	-7	$+2$	-6

10	6	9	3	1	4	1	6	9	6
-9	$+1$	-6	$+4$	$+7$	$+5$	$+8$	-3	-8	-5

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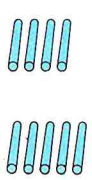
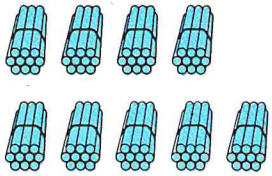
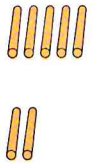


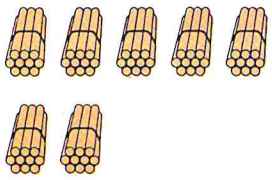
$$\begin{array}{r} 4 \\ +\,5 \\ \hline \end{array}$$



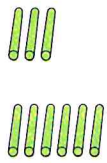
$$\begin{array}{r} 40 \\ +\,50 \\ \hline \end{array}$$



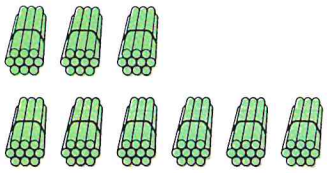
$$\begin{array}{r} 5 \\ +\,2 \\ \hline \end{array}$$



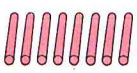
$$\begin{array}{r} 50 \\ +\,20 \\ \hline \end{array}$$



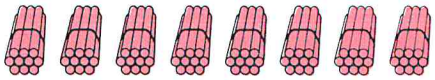
$$\begin{array}{r} 3 \\ +\,6 \\ \hline \end{array}$$



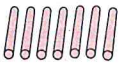
$$\begin{array}{r} 30 \\ +\,60 \\ \hline \end{array}$$



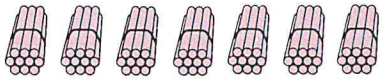
$$\begin{array}{r} 8 \\ -\,3 \\ \hline \end{array}$$



$$\begin{array}{r} 80 \\ -\,30 \\ \hline \end{array}$$

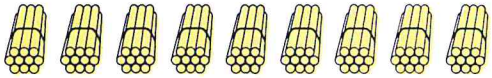


$$\begin{array}{r} 7 \\ -\,5 \\ \hline \end{array}$$



$$\begin{array}{r} 70 \\ -\,50 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -\,4 \\ \hline \end{array}$$



$$\begin{array}{r} 90 \\ -\,40 \\ \hline \end{array}$$

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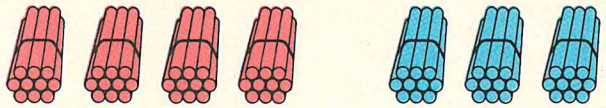
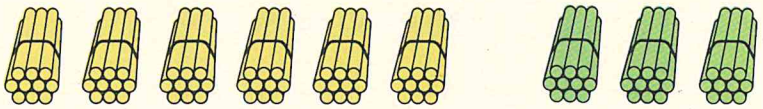
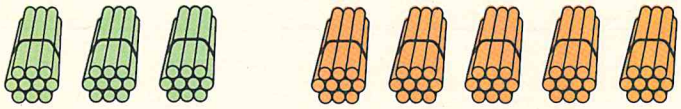


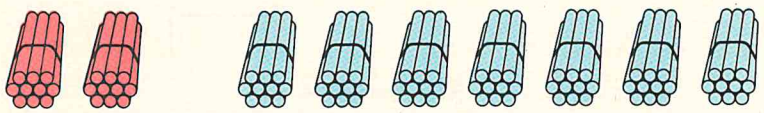
$$\begin{array}{r} 40 \\ +30 \\ \hline \end{array} \qquad \begin{array}{r} 70 \\ -30 \\ \hline \end{array}$$



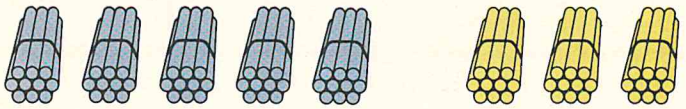
$$\begin{array}{r} 60 \\ +30 \\ \hline \end{array} \qquad \begin{array}{r} 90 \\ -30 \\ \hline \end{array}$$



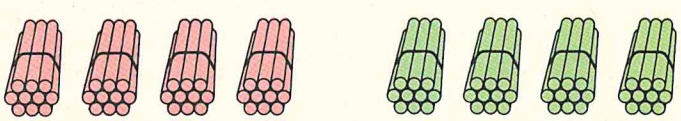
$$\begin{array}{r} 30 \\ +50 \\ \hline \end{array} \qquad \begin{array}{r} 80 \\ -50 \\ \hline \end{array}$$



$$\begin{array}{r} 20 \\ +70 \\ \hline \end{array} \qquad \begin{array}{r} 90 \\ -70 \\ \hline \end{array}$$



$$\begin{array}{r} 50 \\ +30 \\ \hline \end{array} \qquad \begin{array}{r} 80 \\ -30 \\ \hline \end{array}$$



$$\begin{array}{r} 40 \\ +40 \\ \hline \end{array} \qquad \begin{array}{r} 80 \\ -40 \\ \hline \end{array}$$

NAME _____

Write the missing numerals.

$5 + 2 =$ ☐

$2 + 5 =$ ☐

$4 + 3 =$ ☐

$3 + 4 =$ ☐

$50 + 20 =$ ⬡

$20 + 50 =$ ⬡

$40 + 30 =$ ⬠

$30 + 40 =$ ⬠

$40 + 50 =$ ☐

$90 - 50 =$ ⬡

$60 + 30 =$ ☐

$90 - 30 =$ ⬡

$50 + 40 =$ ☐

$90 - 40 =$ ⬠

$30 + 60 =$ ☐

$90 - 60 =$ ⬠

$70 + 10 =$ ☐

$80 - 10 =$ ⬡

$50 + 30 =$ ☐

$80 - 30 =$ ⬡

$40 + 40 =$ ☐

$10 + 70 =$ ☐

$80 - 70 =$ ⬠

$30 + 50 =$ ☐

$80 - 50 =$ ⬠

$80 - 40 =$ ⬠

NAME _____

DECEMBER

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Monday Wednesday Friday

first second third fourth fifth sixth seventh

Sunday Tuesday Thursday Saturday

Write the numerals for these days in December.

the first Friday _____

the first Saturday _____

the first Sunday _____

the first Thursday _____

the last Saturday _____

the last Thursday _____

Tell how many.

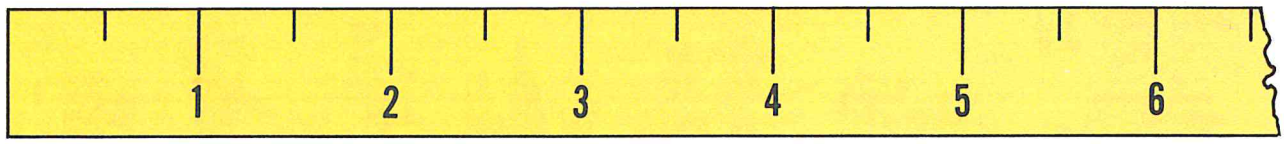
How many Sundays in December? _____

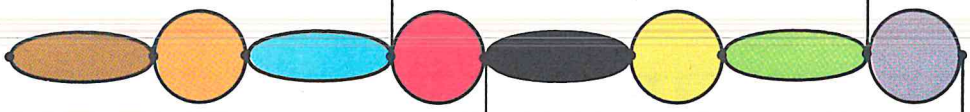
How many Saturdays? _____

How many Thursdays? _____

How many days in December? _____

NAME _____





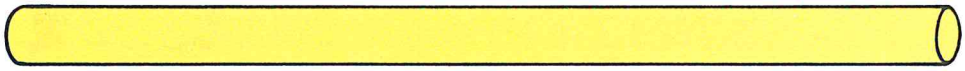
_____ inches

_____ and one half inches

_____ and one half inches

_____ inches

Write the numeral that tells how long each picture is.



_____ inches

_____ and one half inches

_____ inches

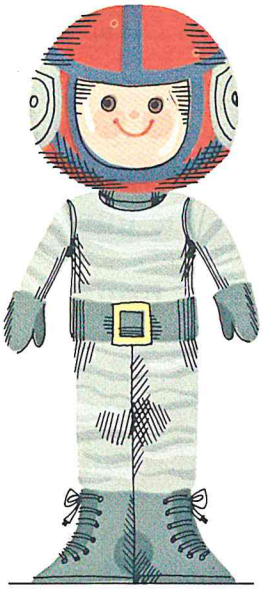
_____ and one half inches

How tall are the girl dolls and the boy dolls?
Write the numerals that tell.

_____ and one half inches

_____ inches

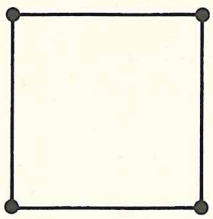
_____ and one half inches

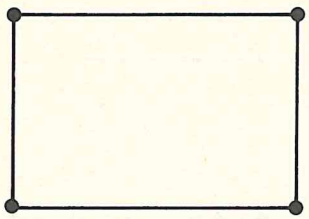


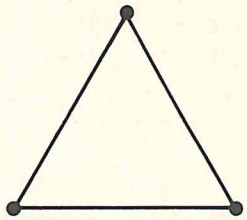
_____ inches

NAME _____

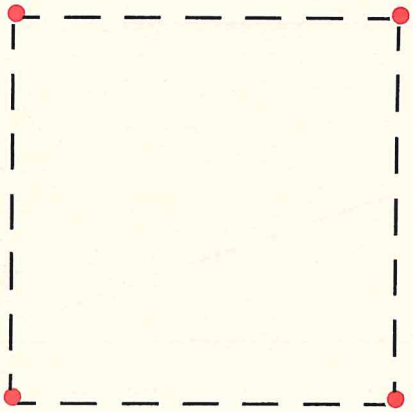
How many line segments make each shape?







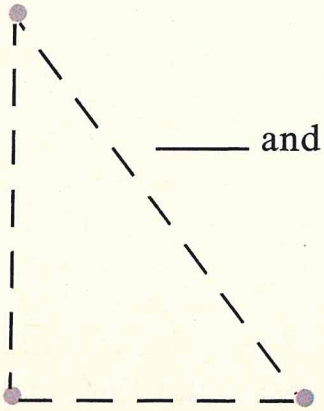
_____ _____ _____



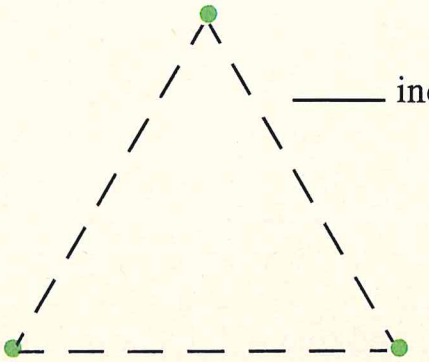
_____ inches

_____ inches

_____ inches

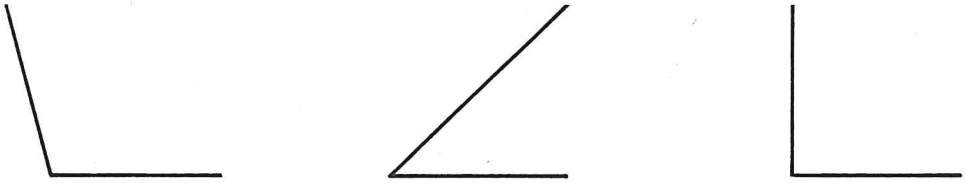


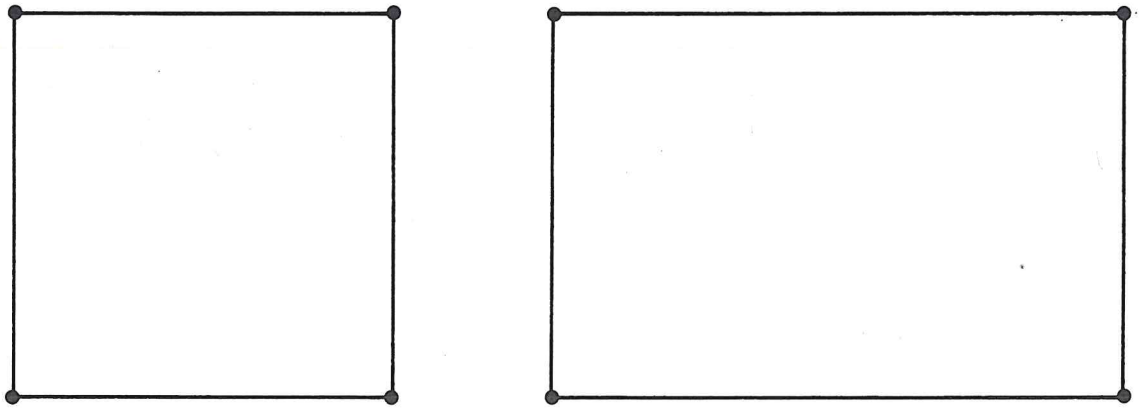
_____ and one half inches

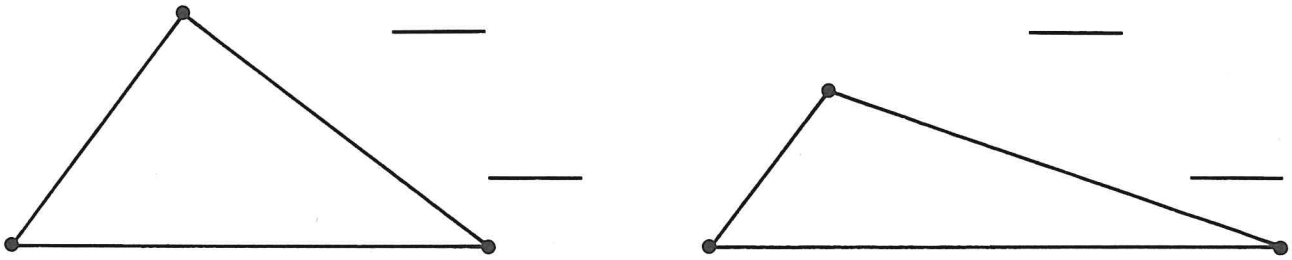


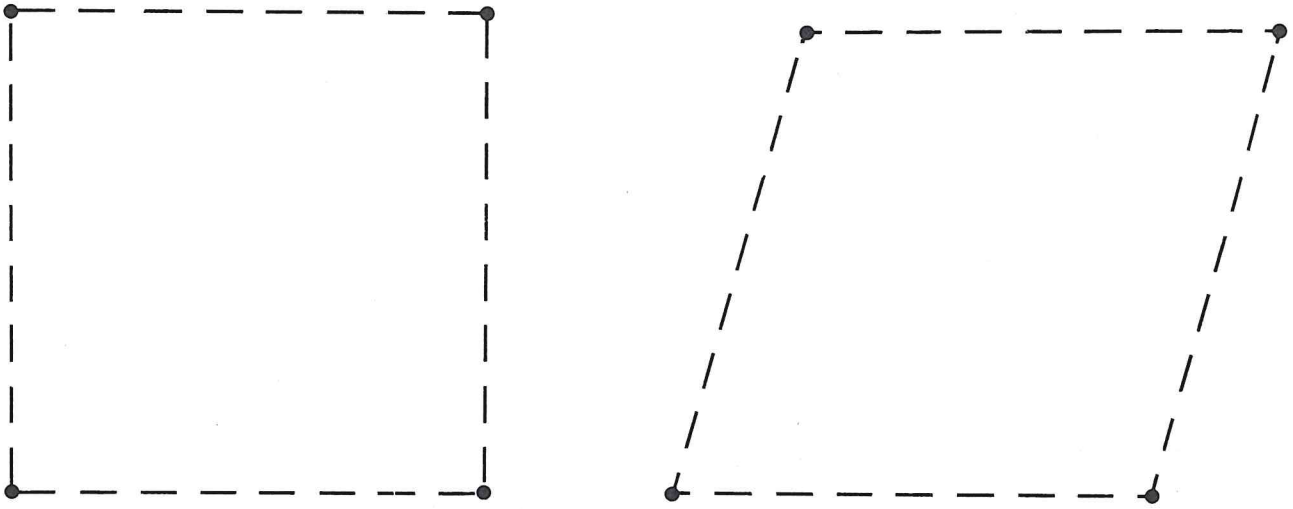
_____ inches

NAME _____







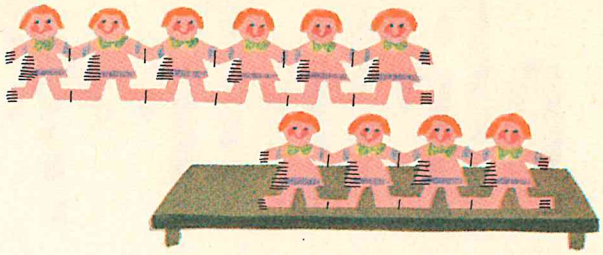


_____ and one half inches

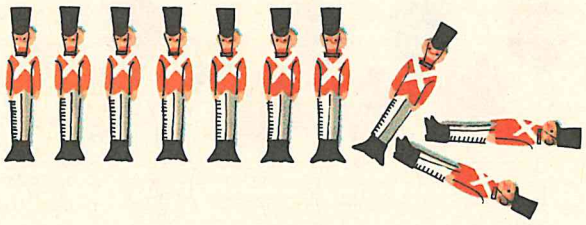
_____ and one half inches

NAME _____

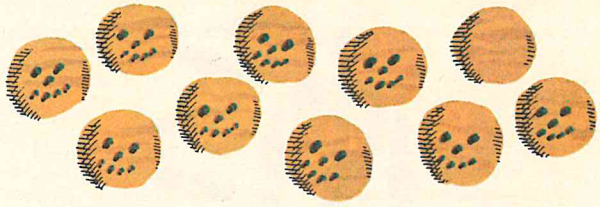
___ ___ = ___



___ ___ = ___



___ ___ = ___

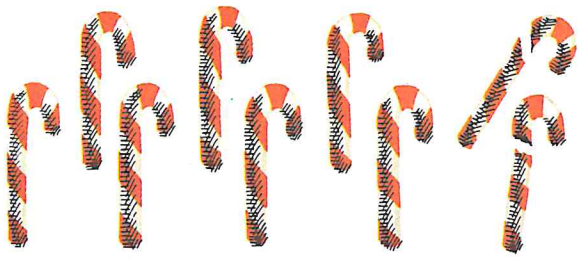


___ ___ = ___

Add, and write the missing numerals.

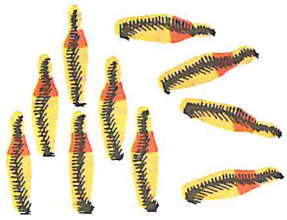
4	3	2	4	5	1	5	6	2
+4	+2	+1	+6	+2	+4	+4	+1	+2
3	5	7	1	8	7	1	2	5
+4	+1	+3	+1	+1	+2	+9	+6	+5
2	1	8	6	3	3	1	3	4
+5	+2	+2	+3	+1	+5	+8	+3	+5
6	5	1	4	3	2	1	2	4
+4	+3	+6	+3	+6	+3	+7	+8	+2
4	2	1	6	7	2	1	3	9
+1	+7	+5	+2	+1	+4	+3	+7	+1

NAME _____

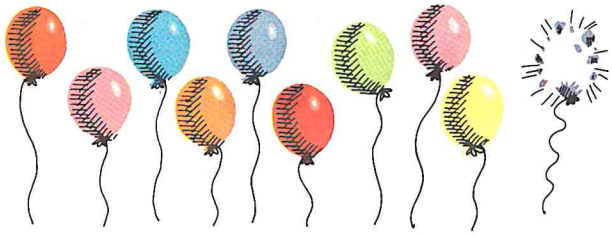


___ ___ = ___

___ ___ = ___



___ ___ = ___

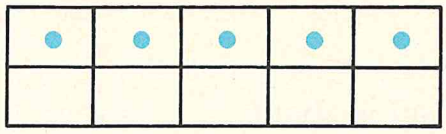


___ ___ = ___

Subtract, and write the missing numerals.

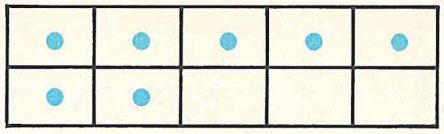
9 − 3	6 − 5	2 − 1	9 − 7	4 − 3	7 − 2	8 − 1	10 − 2	8 − 6
7 − 5	5 − 1	10 − 4	8 − 3	10 − 1	6 − 3	9 − 5	5 − 2	10 − 7
8 − 4	10 − 8	3 − 1	9 − 4	8 − 7	5 − 4	7 − 1	10 − 3	6 − 2
3 − 2	10 − 5	8 − 2	10 − 9	7 − 3	9 − 1	6 − 4	9 − 2	7 − 6
8 − 5	9 − 8	4 − 2	6 − 1	10 − 6	5 − 3	7 − 4	4 − 1	9 − 6

NAME _____



$5 + \square = 10$

$10 - \square = 5$



$7 + \square = 10$

$10 - \square = 7$

$8 + 2 = \square$ $10 - 2 =$ ⬡ $10 - 8 =$ ⬠	$6 + 4 = \square$ $10 - 4 =$ ⬡ $10 - 6 =$ ⬠	$3 + 7 = \square$ $10 - 7 =$ ⬡ $10 - 3 =$ ⬠
$5 + 4 = \square$ $9 - 4 =$ ⬡ $9 - 5 =$ ⬠	$6 + 2 = \square$ $8 - 2 =$ ⬡ $8 - 6 =$ ⬠	$7 + 2 = \square$ $9 - 2 =$ ⬡ $9 - 7 =$ ⬠
$5 + 3 = \square$ $8 - 3 =$ ⬡ $8 - 5 =$ ⬠	$6 + 3 = \square$ $9 - 3 =$ ⬡ $9 - 6 =$ ⬠	$3 + 4 = \square$ $7 - 4 =$ ⬡ $7 - 3 =$ ⬠

NAME _____

The nail is about ____ straws long.

The strip is about ____ straws long.

The pencil is about ____ straws long.

Use your straw to find about how long each strip is.

About ____ straws long

About ____ straws long

About ____ straws long

About ____ straws long

NAME _____

About

_____

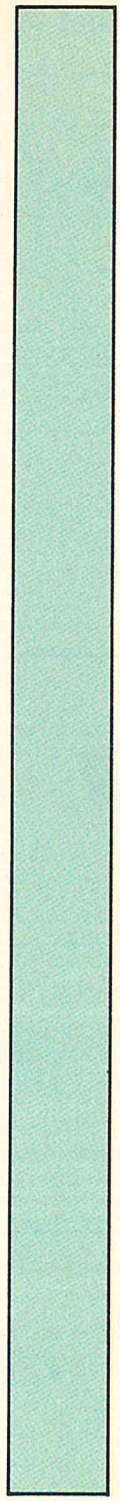
straws
long

About _____ straws long

About

_____

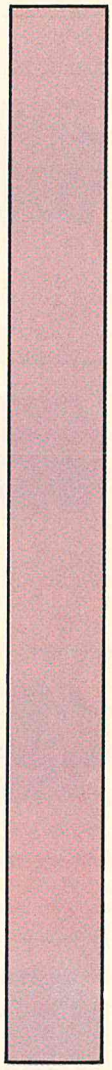
straws
long



About

_____

straws
long



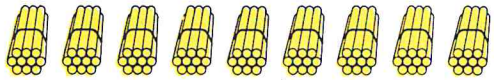
About

_____

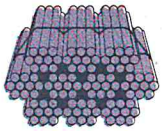
straws
long

NAME _____

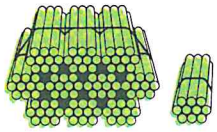
Write the numerals that tell how many.



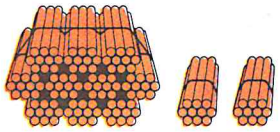
_____



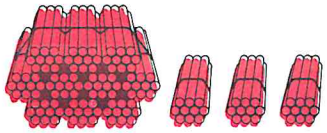
_____



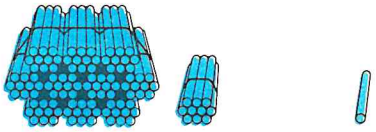
_____



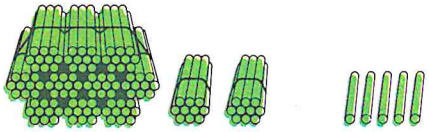
_____



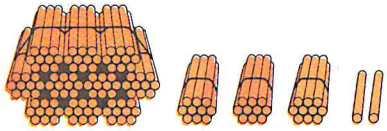
_____



_____



_____

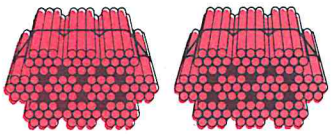


_____

_____

_____

_____



_____

NAME _____

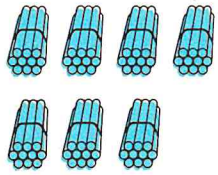
Show what each numeral means.

hundreds tens ones 123 means 1 2 3.	hundreds tens ones 150 means ___ ___ ___.
181 means ___ ___ ___.	155 means ___ ___ ___.
175 means ___ ___ ___.	105 means ___ ___ ___.
160 means ___ ___ ___.	198 means ___ ___ ___.
190 means ___ ___ ___.	104 means ___ ___ ___.
200 means ___ ___ ___.	140 means ___ ___ ___.

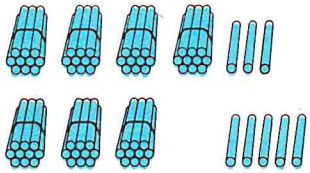
Read the numerals from 101 to 200.

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

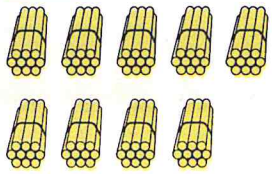
NAME _____



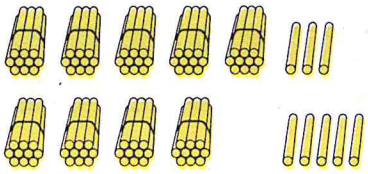
tens	ones
4	0
+ 3	0



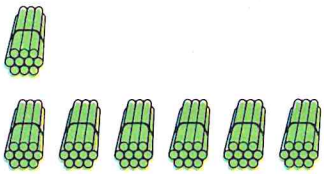
tens	ones
4	3
+ 3	5



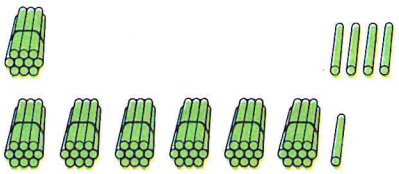
5	0
+ 4	0



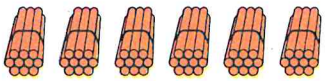
5	3
+ 4	5



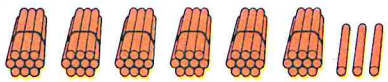
1	0
+ 6	0



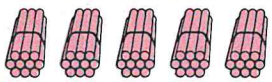
1	4
+	6 1



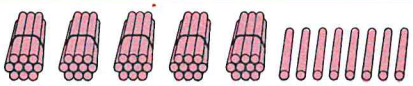
6	0
− 4	0



6	3
−	4 1

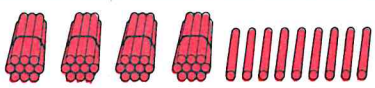


5	0
− 2	0



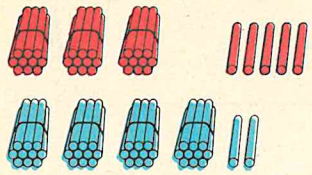
5	8
− 2	5

4	0
− 1	0



4	9
− 1	7

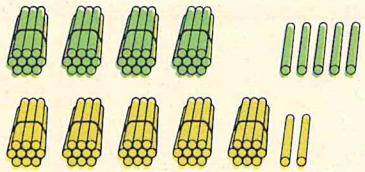
NAME _____



tens	ones
35	
+42	

tens	ones
77	
−42	

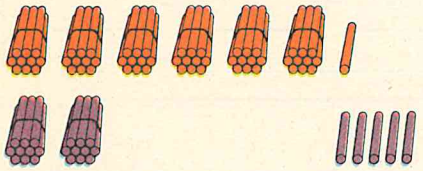
tens	ones
77	
−35	



45	
+52	

97	
−52	

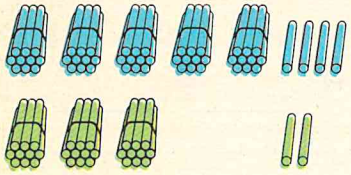
97	
−45	



61	
+25	

86	
−25	

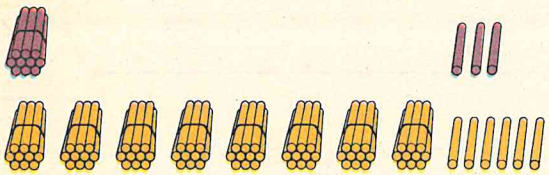
86	
−61	



54	
+32	

86	
−32	

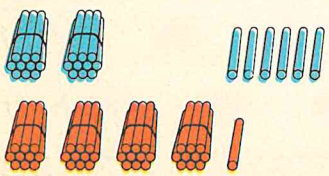
86	
−54	



13	
+86	

99	
−86	

99	
−13	

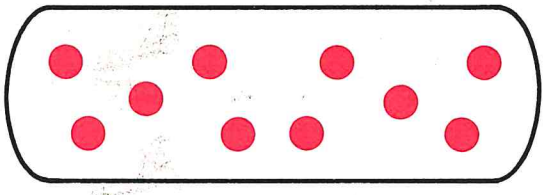


26	
+41	

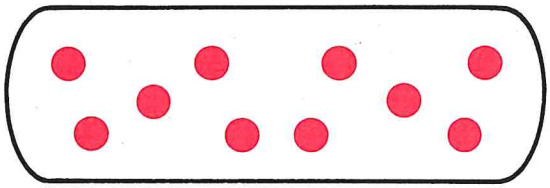
67	
−41	

67	
−26	

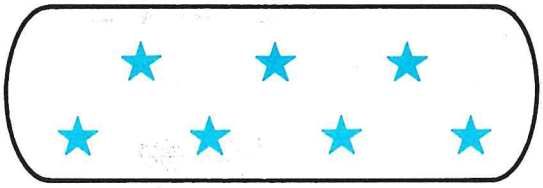
NAME _____



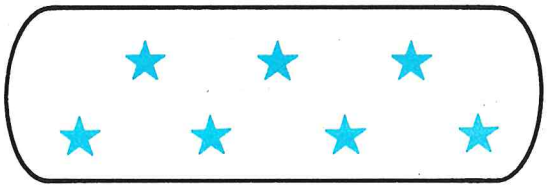
___ + ___ = ___



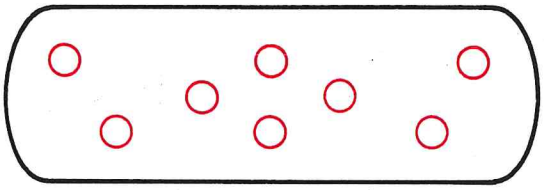
___ + ___ + ___ = ___



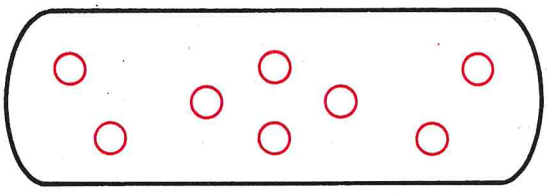
___ + ___ = ___



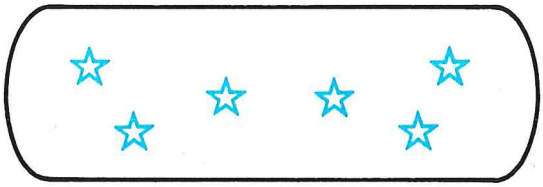
___ + ___ + ___ = ___



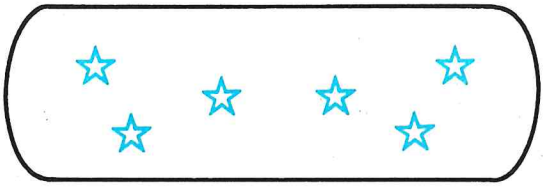
___ + ___ = ___



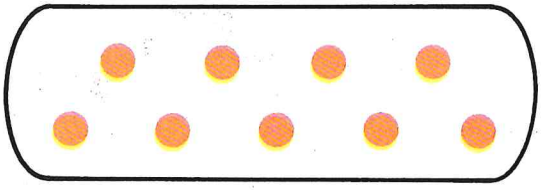
___ + ___ + ___ = ___



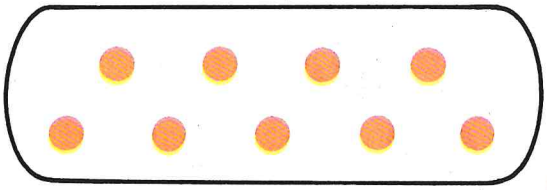
___ + ___ = ___



___ + ___ + ___ = ___

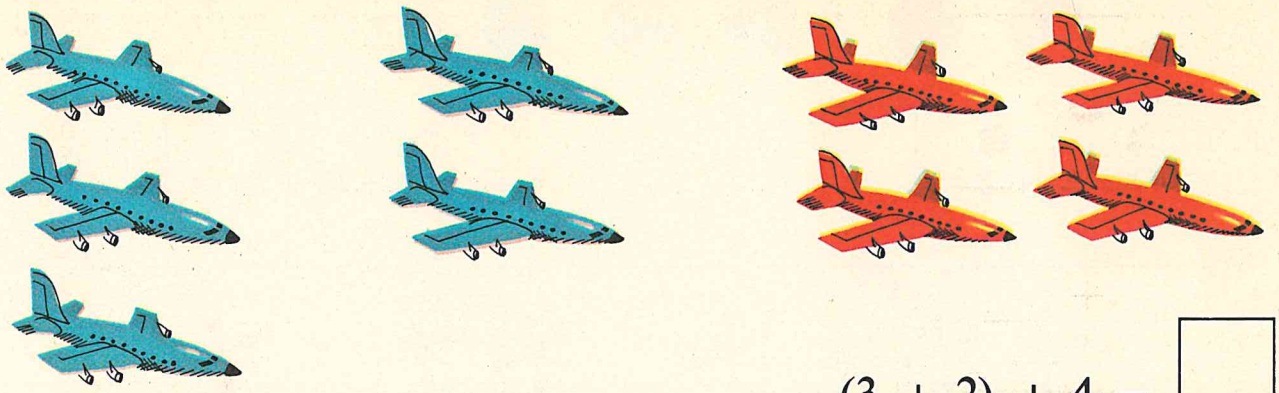


___ + ___ = ___

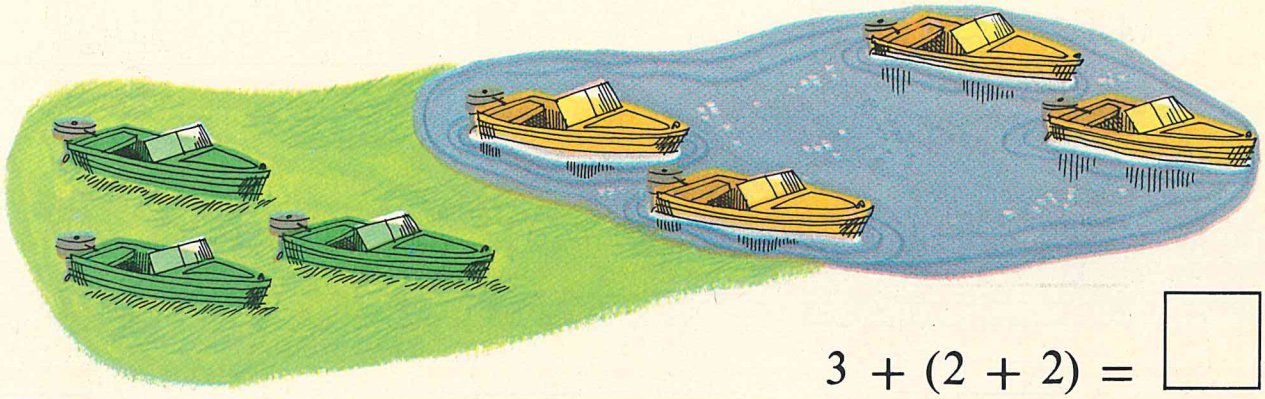


___ + ___ + ___ = ___

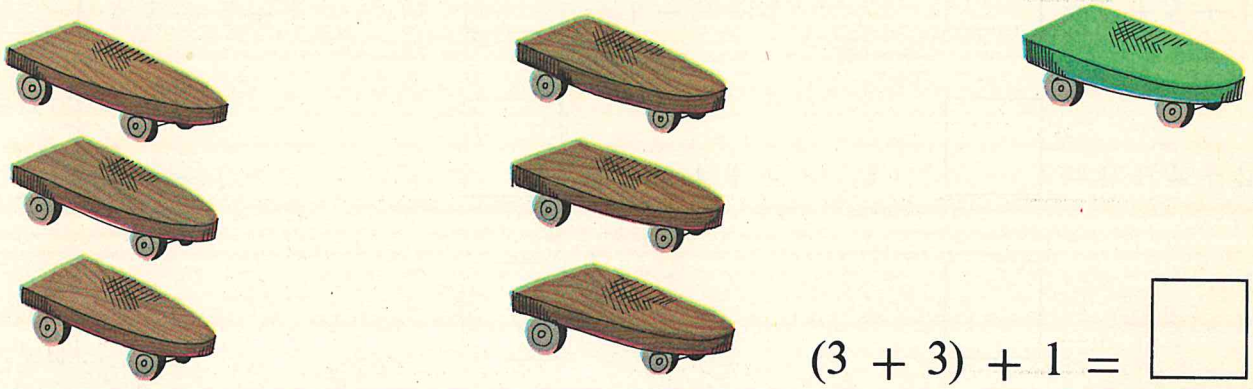
NAME _____



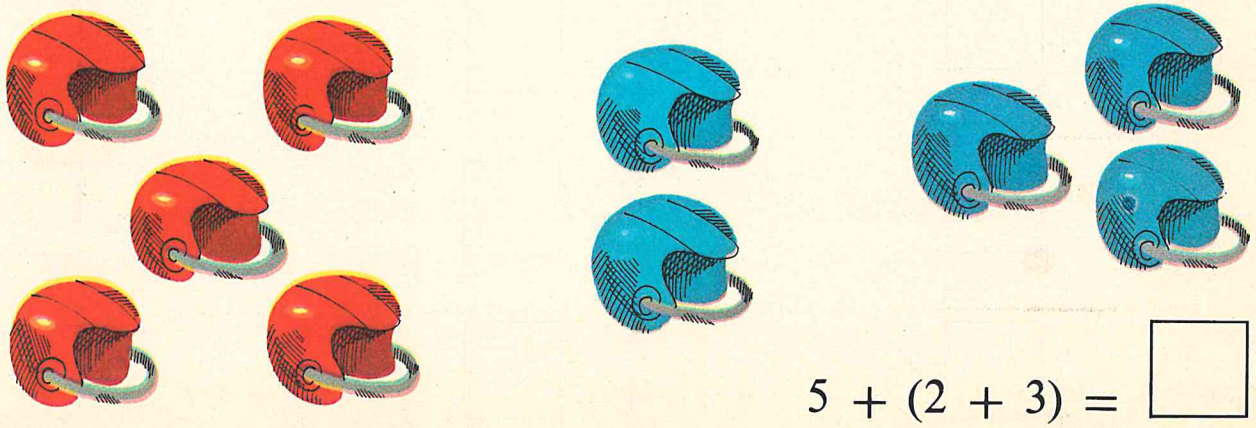
$(3 + 2) + 4 =$ ☐



$3 + (2 + 2) =$ ☐



$(3 + 3) + 1 =$ ☐



$5 + (2 + 3) =$ ☐

NAME _____

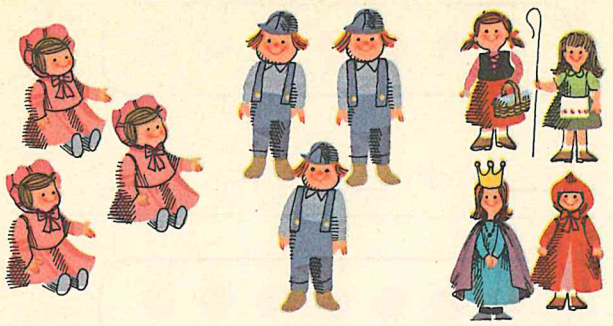
$(2 + 3) + 2 =$ ☐ $2 + (3 + 2) =$ ☐

$(4 + 2) + 1 =$ ☐ $4 + (2 + 1) =$ ☐

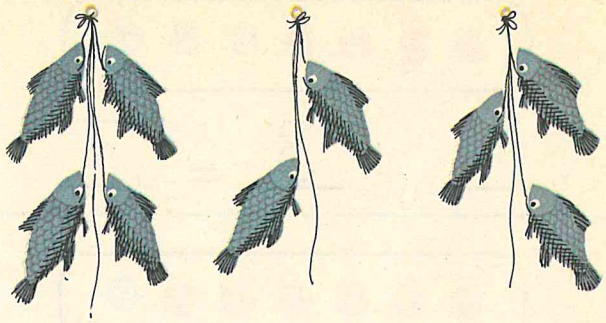
$(2 + 2) + 4 =$ ☐ $2 + (2 + 4) =$ ☐

$1 + 5 + 2 =$ ☐	$1 + 8 + 1 =$ ☐	$1 + 5 + 3 =$ ☐
$2 + 4 + 2 =$ ☐	$2 + 4 + 3 =$ ☐	$2 + 2 + 5 =$ ☐
$2 + 5 + 3 =$ ☐	$7 + 1 + 2 =$ ☐	$3 + 1 + 6 =$ ☐
$5 + 2 + 1 =$ ☐	$6 + 2 + 2 =$ ☐	$7 + 1 + 2 =$ ☐
$6 + 3 + 1 =$ ☐	$2 + 2 + 2 =$ ☐	$3 + 3 + 3 =$ ☐
$4 + 1 + 5 =$ ☐	$5 + 1 + 4 =$ ☐	$5 + 4 + 1 =$ ☐

NAME _____

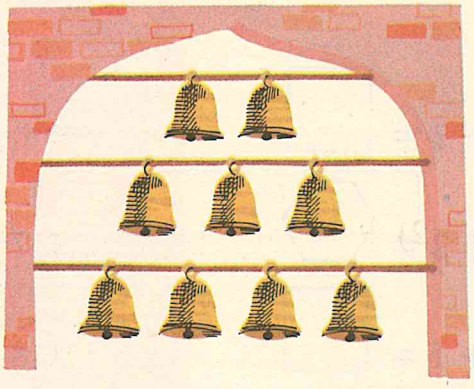


___ + ___ + ___ = ___



___ + ___ + ___ = ___

1
3
4



2
3
4

Begin at the top and add. Write the missing numerals.

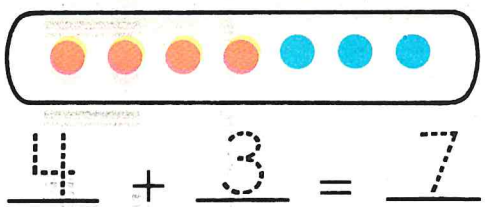
5	3	1	2	1	2	2	2	3	1
1	5	2	4	4	7	5	2	2	3
2	2	6	1	3	1	2	3	3	6

1	2	1	1	2	4	3	2	1	4
2	2	1	5	3	1	3	3	7	3
2	5	8	4	1	5	3	5	1	2

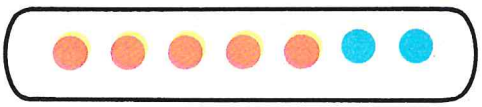
4 + 2 + 2 = ☐ 2 + 1 + 7 = ☐ 3 + 1 + 6 = ☐

1 + 3 + 5 = ☐ 4 + 4 + 2 = ☐ 5 + 2 + 2 = ☐

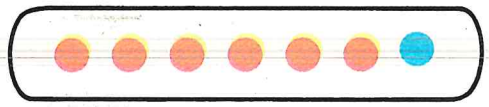
NAME _____



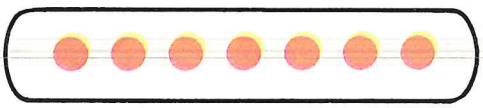
4 + 3 = 7



___ + ___ = ___



___ + ___ = ___



___ + ___ = ___

5 + 3 = ☐

6 + 2 = ⬡

7 + 1 = ☐

8 + 0 = ⬠

3 + 6 = ⬠

2 + 7 = ☐

1 + 8 = ⬠

0 + 9 = ☐

7 + 3 = ☐

8 + 2 = ⬡

9 + 1 = ☐

10 + 0 = ⬡

8 − 3 = ☐

8 − 2 = ☐

8 − 1 = ☐

8 − 0 = ☐

9 − 6 = ☐

9 − 7 = ☐

9 − 8 = ☐

9 − 9 = ☐

7 − 3 = ☐

7 − 2 = ☐

7 − 1 = ☐

7 − 0 = ☐

6 + 0 = ☐

0 + 5 = ☐

6 − 0 = ⬡

5 − 5 = ⬡

6 − 6 = ☐

5 − 0 = ☐

NAME _____

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										

$0 + \square = 5$

$1 + \triangle = 5$

$2 + \hexagon = 5$

$3 + \pentagon = 5$

$4 + \square = 5$

$5 + \triangle = 5$

$5 - 5 = \pentagon$

$5 - 4 = \square$

$5 - 3 = \hexagon$

$5 - 2 = \triangle$

$5 - 1 = \hexagon$

$5 - 0 = \square$

$0 + \hexagon = 8$

$2 + \square = 8$

$4 + \pentagon = 8$

$6 + \triangle = 8$

$8 + \hexagon = 8$

$8 - \hexagon = 0$

$8 - \square = 2$

$8 - \pentagon = 4$

$8 - \triangle = 6$

$8 - \hexagon = 8$

NAME _____

One Saturday many children were playing. Tom saw 9 boys flying kites. Six of the boys went to play with the boats. How many boys were flying kites then?

____ ____ = ____

Mary counted 7 boys playing with boats and 3 boys drawing pictures.
How many boys did Mary count?

____ ____ = ____

John counted 2 boys playing with tops.
He counted 4 boys playing with cars.
Then he counted 4 boys playing with boats.
How many boys did John count?

____ ____ ____ = ____

Tom saw 2 girls flying kites.
He saw 6 girls playing with boats.
Then he saw 1 girl drawing a picture.
How many girls did Tom see?

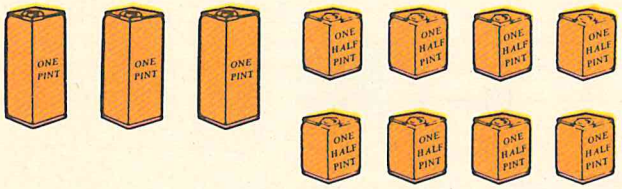
____ ____ ____ = ____

NAME _____

1 quart of milk is as much as 2 pints.

1 pint of milk
is as much as
2 half pints.

1 pint of milk
is as much as
2 cups.



2 pints of milk
is as much as _____ half pints.

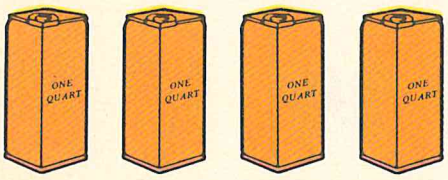
3 pints of milk
is as much as _____ half pints.

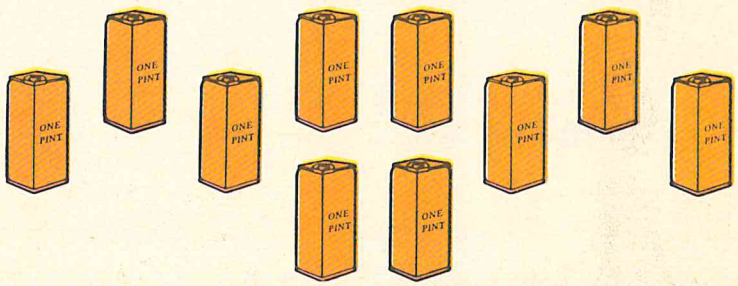
2 pints of milk
is as much as _____ cups.

3 pints of milk
is as much as _____ cups.

1 half pint of milk
is as much as _____ cup.

2 half pints of milk
is as much as _____ cups.





2 quarts is as much as _____ pints.

3 quarts is as much as _____ pints.

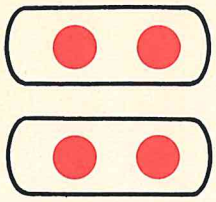
4 quarts is as much as _____ pints.

NAME _____

Write the missing sign, $>$, $<$, or $=$.

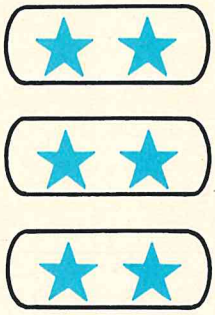
$8 + 2$		9	$7 + 2$		10
$6 + 1$		7	$6 + 3$		$8 + 1$
$4 + 3$		$2 + 4$	$7 + 1$		$9 + 1$
$10 - 1$		9	$10 - 2$		9
$10 - 3$		$8 - 1$	$9 - 4$		$10 - 4$
$4 + 4$		$9 - 1$	$8 - 7$		$3 - 2$
$8 + 0$		8	$4 + 4$		$8 + 0$
$7 - 0$		7	$6 - 0$		$6 - 1$
$9 - 8$		0	$9 - 9$		0
$10 - 9$		$7 - 6$	$5 + 5$		$6 + 4$
$7 + 3$		$1 + 8$	$10 - 5$		$3 + 1$
$8 - 8$		$8 - 0$	$7 + 0$		$6 + 2$

NAME _____



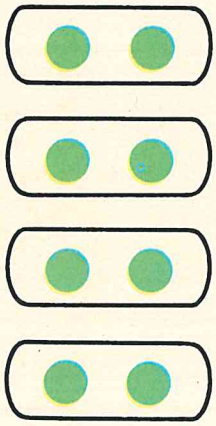
2 sets of 2 ☐

Two 2's = ☐



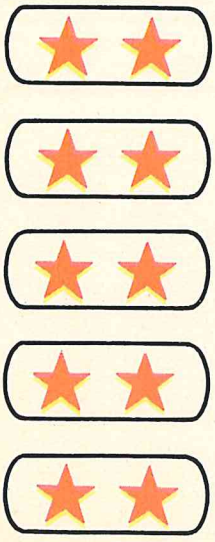
3 sets of 2 ☐

Three 2's = ☐



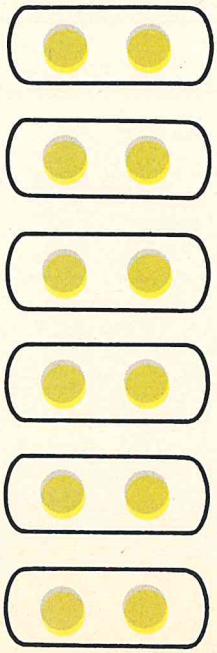
4 sets of 2 ☐

Four 2's = ☐



5 sets of 2 ☐

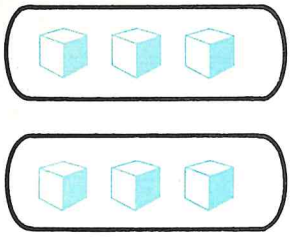
Five 2's = ☐



6 sets of 2 ☐

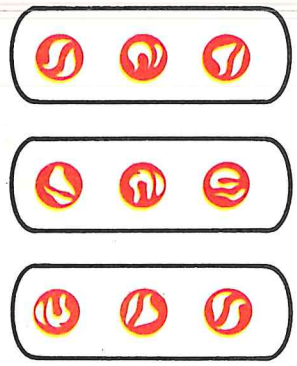
Six 2's = ☐

NAME _____



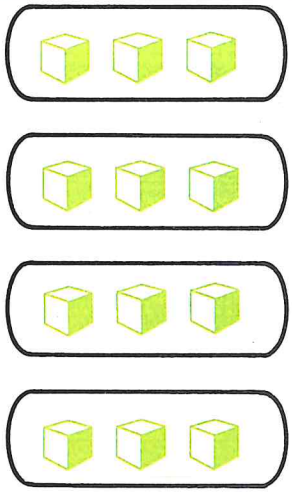
2 sets of 3 ☐

Two 3's = ☐



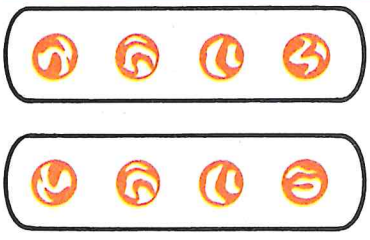
3 sets of 3 ☐

Three 3's = ☐



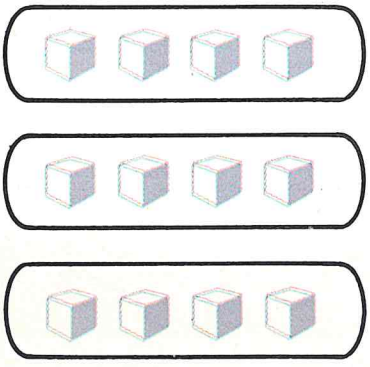
4 sets of 3 ☐

Four 3's = ☐



2 sets of 4 ☐

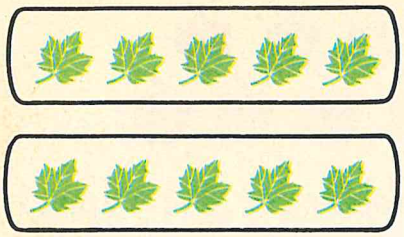
Two 4's = ☐



3 sets of 4 ☐

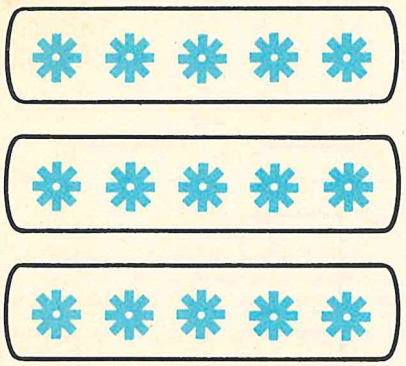
Three 4's = ☐

NAME _____



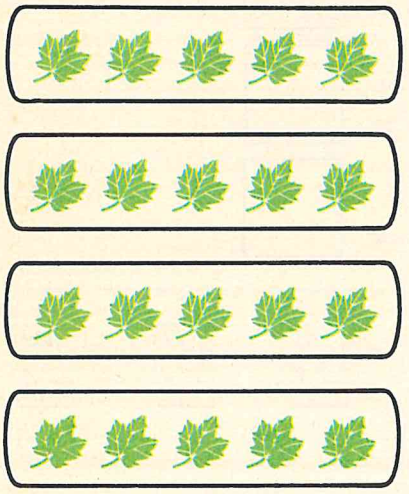
2 sets of 5 ☐

Two 5's = ☐



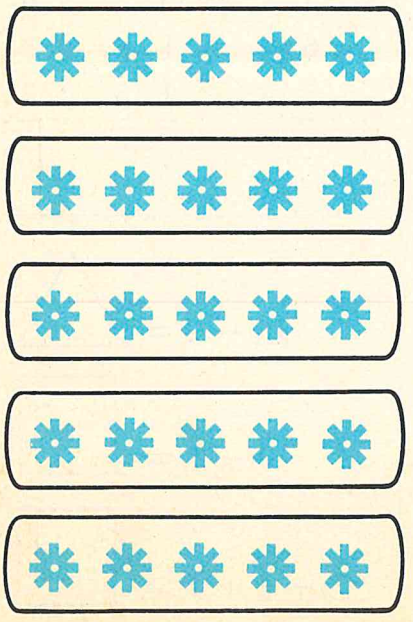
3 sets of 5 ☐

Three 5's = ☐



4 sets of 5 ☐

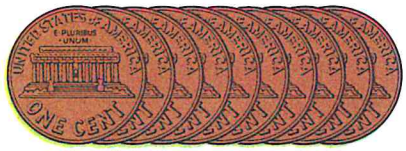
Four 5's = ☐



5 sets of 5 ☐

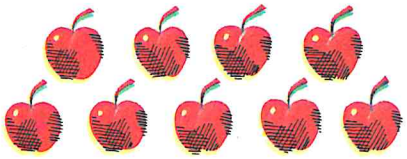
Five 5's = ☐

NAME _____



Tom had 10 pennies. He bought some milk with 6 pennies. How many pennies did Tom have then?

____ ____ = ____



John had 9 apples. He gave 4 apples to Jane. How many apples did John have then?

____ ____ = ____

$(1 + 3) + 3 =$ ☐

$(2 + 3) + 5 =$ ☐

$(4 + 2) + 3 =$ ☐

$(1 + 7) + 2 =$ ☐

$1 + (3 + 3) =$ ☐

$2 + (3 + 5) =$ ☐

$4 + (2 + 3) =$ ☐

$1 + (7 + 2) =$ ☐

10	9	10	8	8	10	9	8	7	10
−7	−6	−5	−7	−4	−2	−5	−1	−6	−4
1	3	7	3	2	1	2	1	5	4
2	3	1	2	1	1	2	6	1	3
7	2	1	5	6	7	6	1	1	3

$10 - 1 =$ ⬡

$9 - 7 =$ ☐

$4 + 4 + 1 =$ ⬡

$7 - 4 =$ ⬠

$10 - 3 =$ ⬡

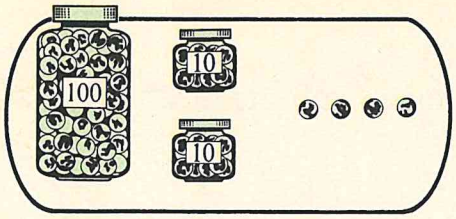
$1 + 2 + 5 =$ ⬠

$10 - 9 =$ △

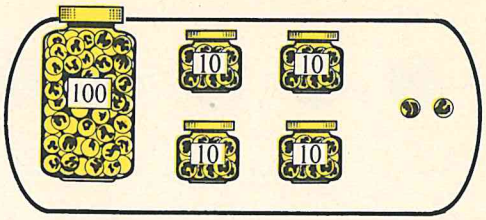
$9 - 1 =$ ☐

$3 + 6 + 1 =$ ☐

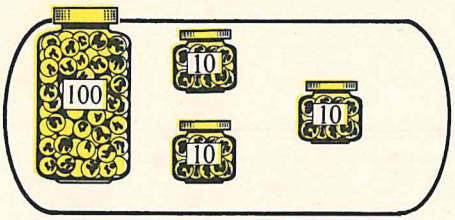
NAME _____



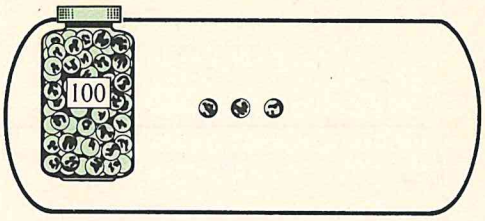
142



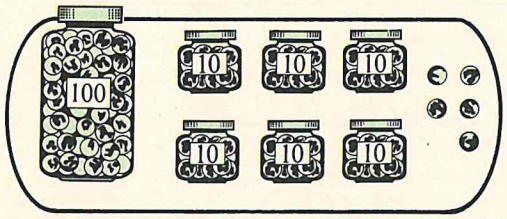
124



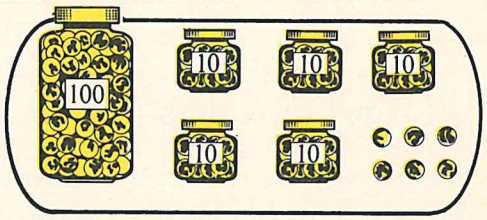
130



103



156



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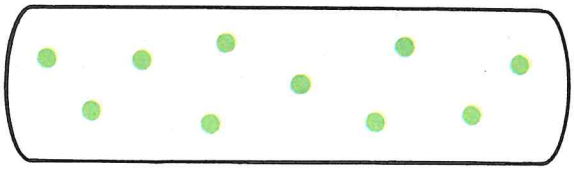
$1 + 1 + 3 =$ ☐	$1 + 1 + 5 =$ ⬡	$1 + 1 + 7 =$ ⬠
$2 + 2 + 1 =$ ☐	$2 + 2 + 3 =$ ⬡	$2 + 2 + 6 =$ ⬠
$3 + 1 + 1 =$ ☐	$3 + 1 + 4 =$ ⬡	$3 + 1 + 5 =$ ⬠
$3 + 3 + 2 =$ ☐	$3 + 3 + 3 =$ ⬡	$3 + 3 + 4 =$ ⬠
$4 + 3 + 1 =$ ☐	$4 + 3 + 2 =$ ⬡	$4 + 3 + 3 =$ ⬠
$5 + 1 + 1 =$ ☐	$6 + 1 + 1 =$ ⬡	$8 + 1 + 1 =$ ⬠
$5 + 3 + 1 =$ ☐	$5 + 3 + 2 =$ ⬡	$5 + 4 + 1 =$ ⬠

NAME _____

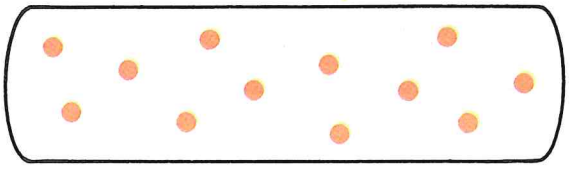
How many subsets of 2? _____

How many subsets of 3? _____



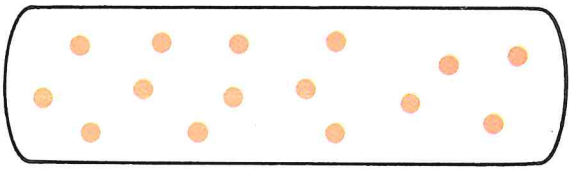
How many dots? _____

How many subsets of 2? _____



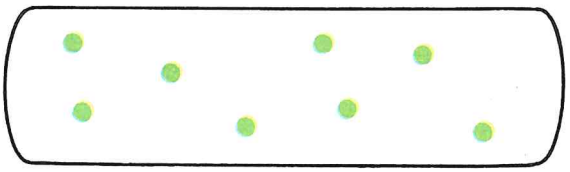
How many dots? _____

How many subsets of 4? _____



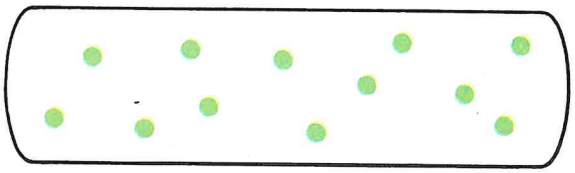
How many dots? _____

How many subsets of 5? _____



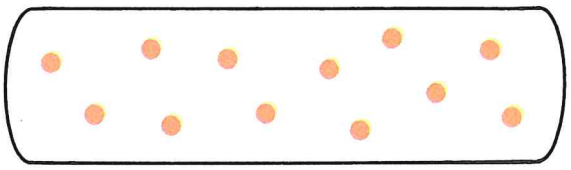
How many dots? _____

How many subsets of 4? _____



How many dots? _____

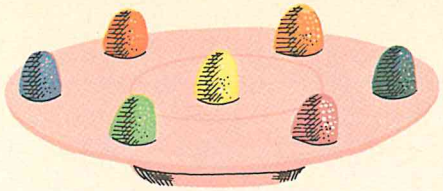
How many subsets of 3? _____



How many dots? _____

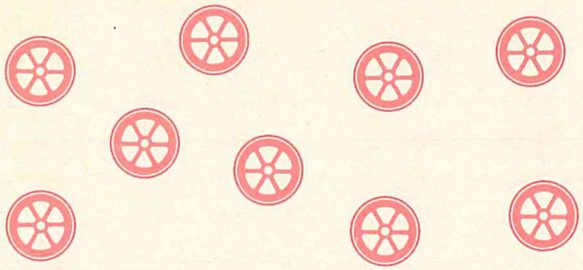
How many subsets of 6? _____

NAME _____



How many subsets of 2? ____

How many left over? ____



How many wheels? ____

How many wagons can be made? ____

How many wheels left over? ____

How many stars? ____

How many subsets of 2? ____

How many stars left over? ____

How many stars? ____

How many subsets of 3? ____

How many stars left over? ____

How many stars? ____

How many subsets of 4? ____

How many stars left over? ____

How many stars? ____

How many subsets of 5? ____

How many stars left over? ____

How many stars? ____

How many subsets of 6? ____

How many stars left over? ____

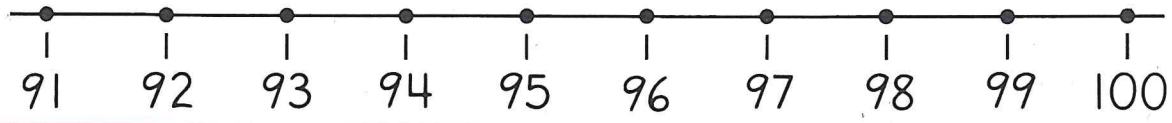
How many stars? ____

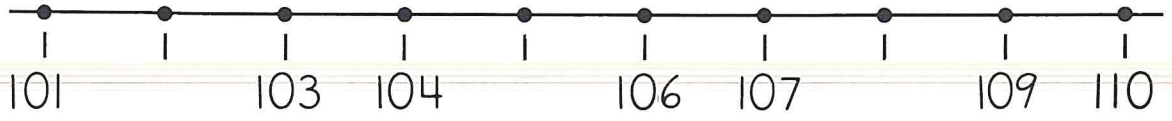
How many subsets of 10? ____

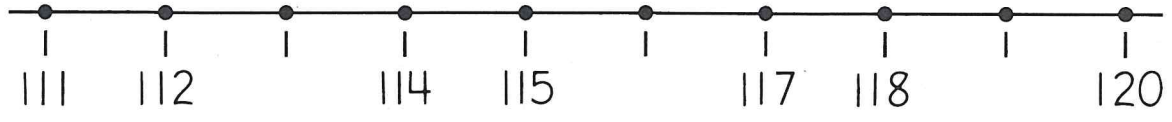
How many stars left over? ____

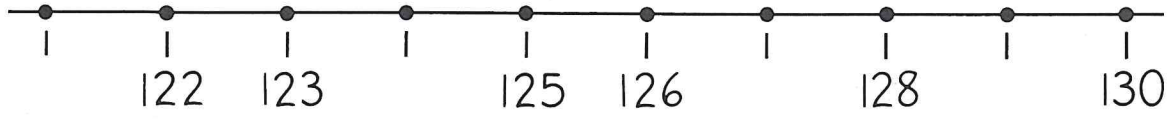
NAME _____

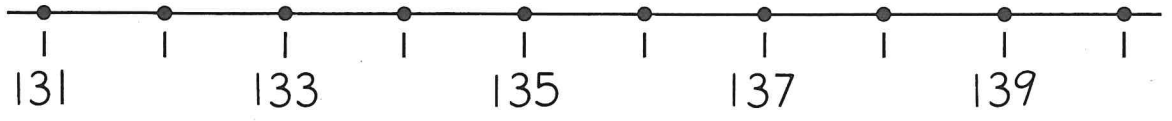
Write the missing numerals.

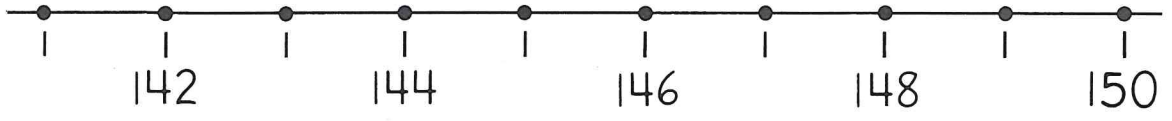


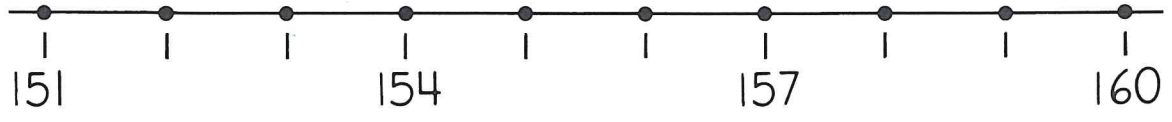


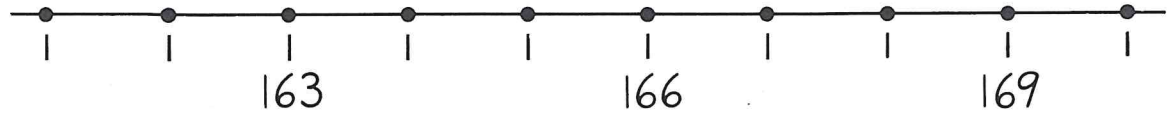


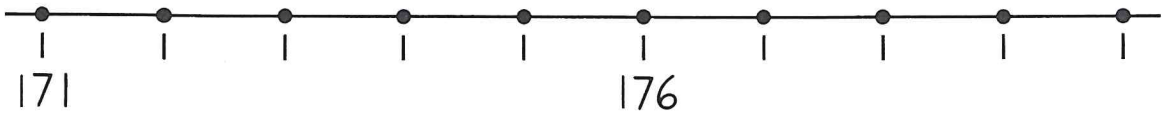


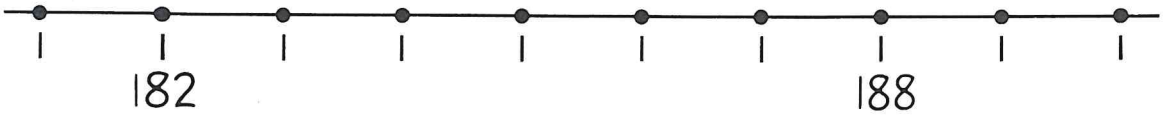


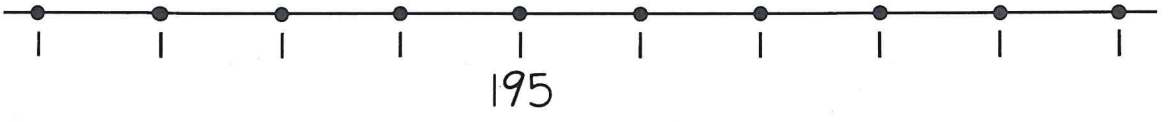












NAME _____

4, 5, 6, ____	24, 25, 26, ____	124, 125, 126, ____
2, 3, ____,5	62, 63, ____, 65	162, 163, ____, 165
____, 7, 8, 9	____, 77, 78, 79	____, 177, 178, 179
1, ____, ____, 4	51, ____, ____, 54	151, ____, ____, 154
2, 3, ____, ____	82, 83, ____, ____	182, 183, ____, ____
____, ____, 3, 4	____, ____, 13, 14	____, ____, 113, 114
2, ____, 4, ____	32, ____, 34, ____	132, ____, 134, ____
____, 6, ____, 8	____, 96, ____, 98	____, 196, ____, 198
____, 4, 5, ____	____, 24, 25, ____	____, 124, 125, ____
18, 19, 20, ____	28, 29, 30, ____	38, 39, 40, ____
59, ____, 61, ____	69, ____, 71, ____	79, ____, 81, ____
____, ____, 41, 42	____, ____, 51, 52	____, ____, 61, 62
78, ____, ____, 81	88, ____, ____, 91	98, ____, ____, 101
177, 178, ____, ____	187, 188, ____, ____	197, 198, ____, ____

NAME _____

Write the missing numerals.

145 means ___ hundred, ___ tens, ___ ones.

145 = _____ + _____ + _____

132 means ___ hundred, ___ tens, ___ ones.

132 = _____ + _____ + _____

160 means ___ hundred, ___ tens, ___ ones.

160 = _____ + _____ + _____

179 means ___ hundred, ___ tens, ___ ones.

179 = _____ + _____ + _____

155 means ___ hundred, ___ tens, ___ ones.

155 = _____ + _____ + _____

108 means ___ hundred, ___ tens, ___ ones.

108 = _____ + _____ + _____

197 means ___ hundred, ___ tens, ___ ones.

197 = _____ + _____ + _____

NAME _____

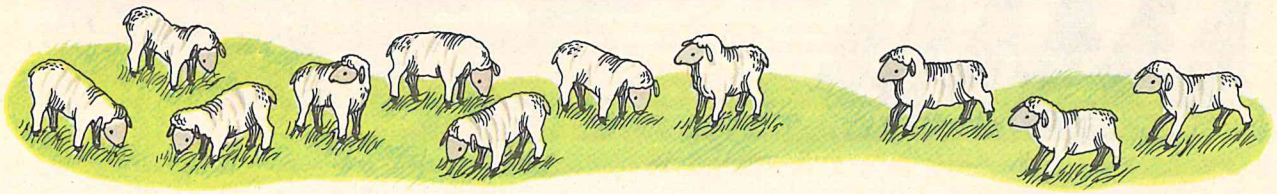
Think of number stories about the horses and lambs that Alice and Fred saw on a farm.

___ + ___ = ___

___ + ___ = ___

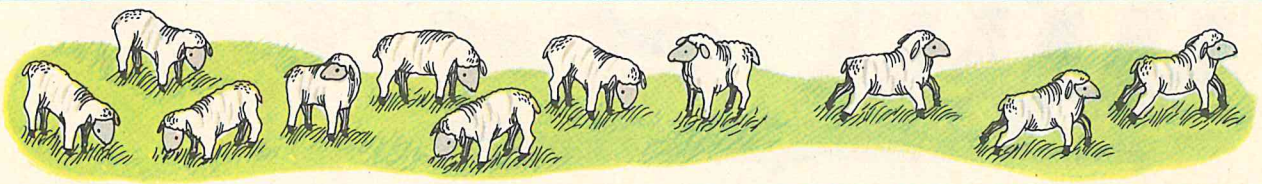
___ − ___ = ___

___ − ___ = ___



___ + ___ = ___

___ + ___ = ___



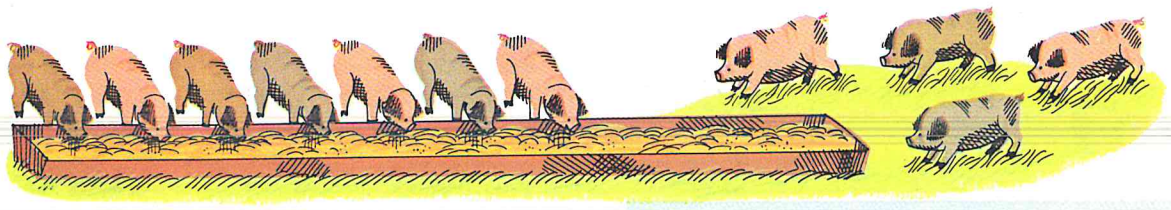
___ − ___ = ___

___ − ___ = ___

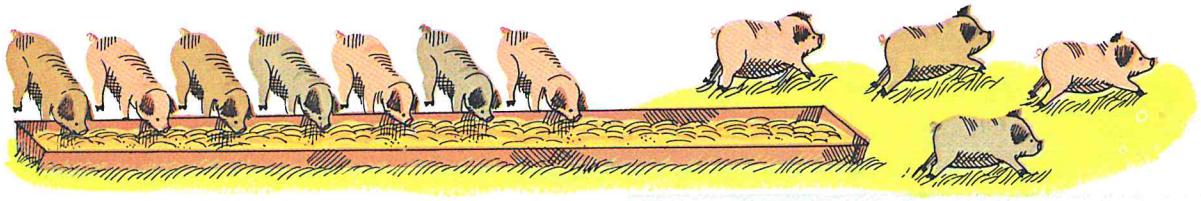
9	2	11	11	8	3	11	11
+2	+9	−2	−9	+3	+8	−3	−8

NAME _____

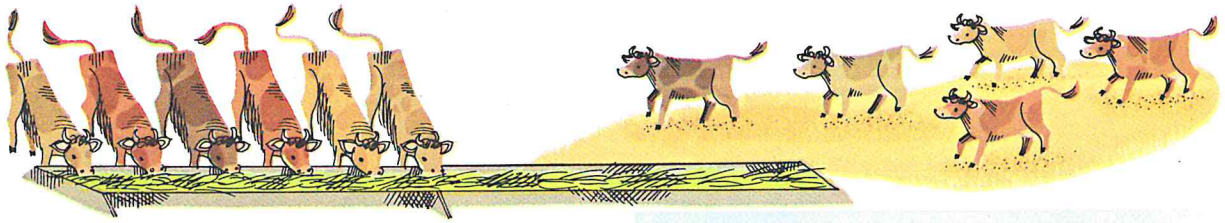
Sam helped feed the animals on the farm.
Think of number stories about the pigs and cows.



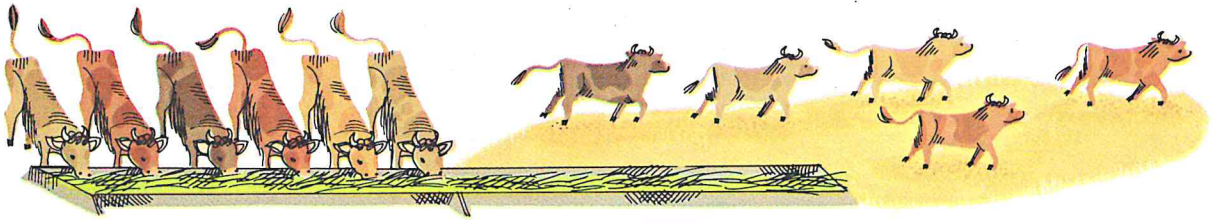
___ + ___ = ___ ___ + ___ = ___



___ − ___ = ___ ___ − ___ = ___



___ + ___ = ___ ___ + ___ = ___

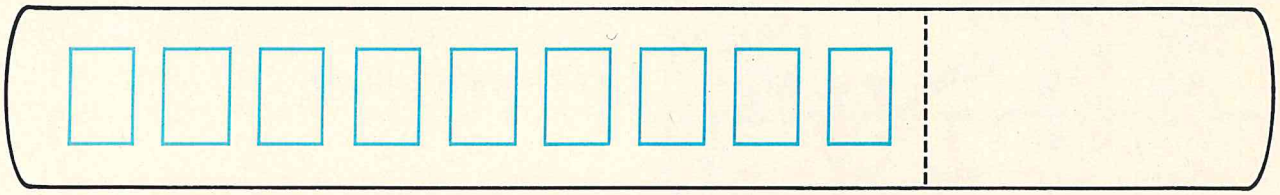


___ − ___ = ___ ___ − ___ = ___

7	4	11	11	6	5	11	11
+4	+7	−4	−7	+5	+6	−5	−6

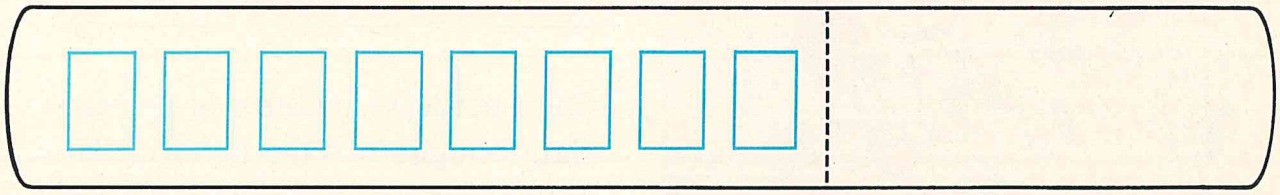
NAME _____

Draw more so that you will have a set of 11.



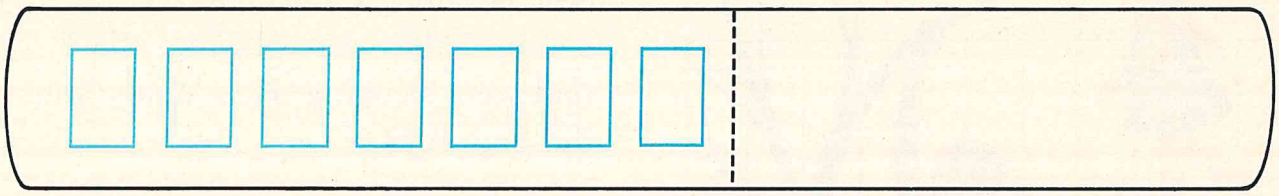
___ + ___ = 11
___ - 2 = ___

___ + ___ = 11
___ - 9 = ___



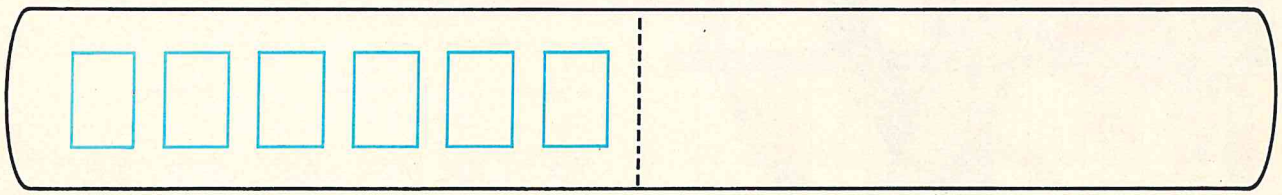
___ + ___ = 11
___ - 3 = ___

___ + ___ = 11
___ - 8 = ___



___ + ___ = 11
___ - 4 = ___

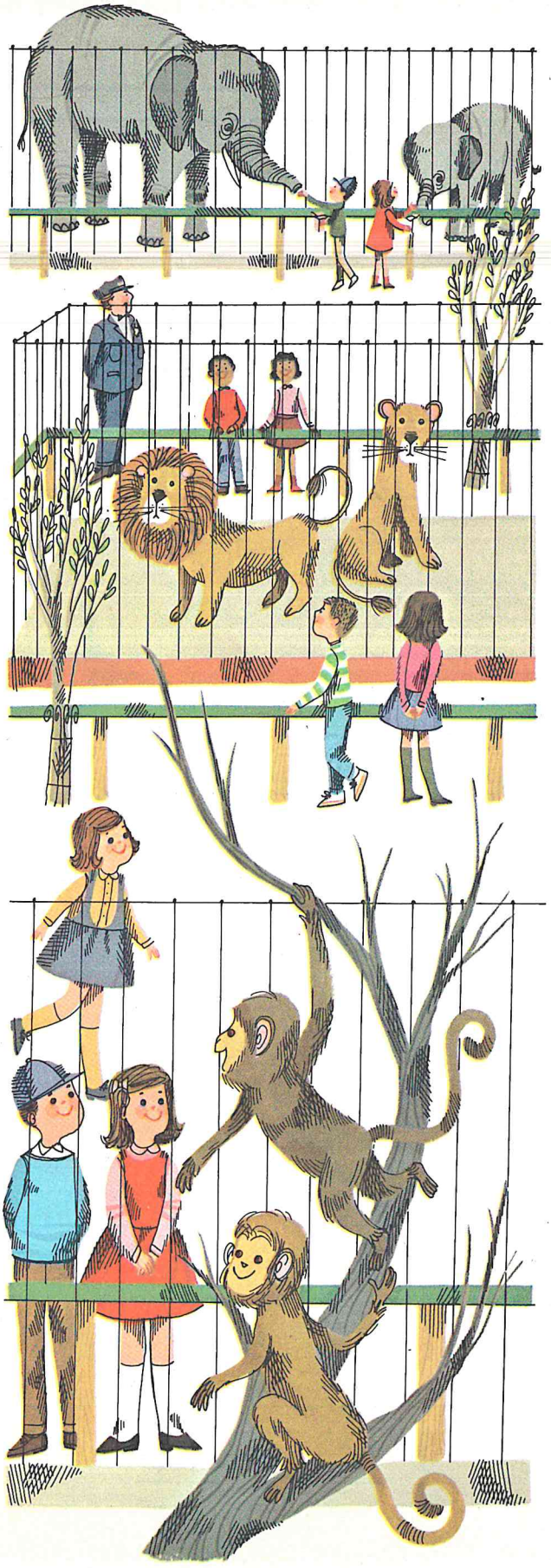
___ + ___ = 11
___ - 7 = ___



___ + ___ = 11
___ - 5 = ___

___ + ___ = 11
___ - 6 = ___

NAME _____



The children went to see some animals. Mary saw 11 elephants that were eating. Four of the elephants went to sleep. How many elephants were eating then?

___ ___ = ___

Fred counted 2 monkeys that were sleeping and 8 that were playing. How many monkeys did Fred count?

___ ___ = ___

John made 11 pictures of animals. Sam bought 2 of the pictures. How many pictures of animals did John have then?

___ ___ = ___

Sam counted 5 lions that were eating, 3 that were playing, and 3 that were sleeping. How many lions did Sam see?

___ ___ ___ = ___

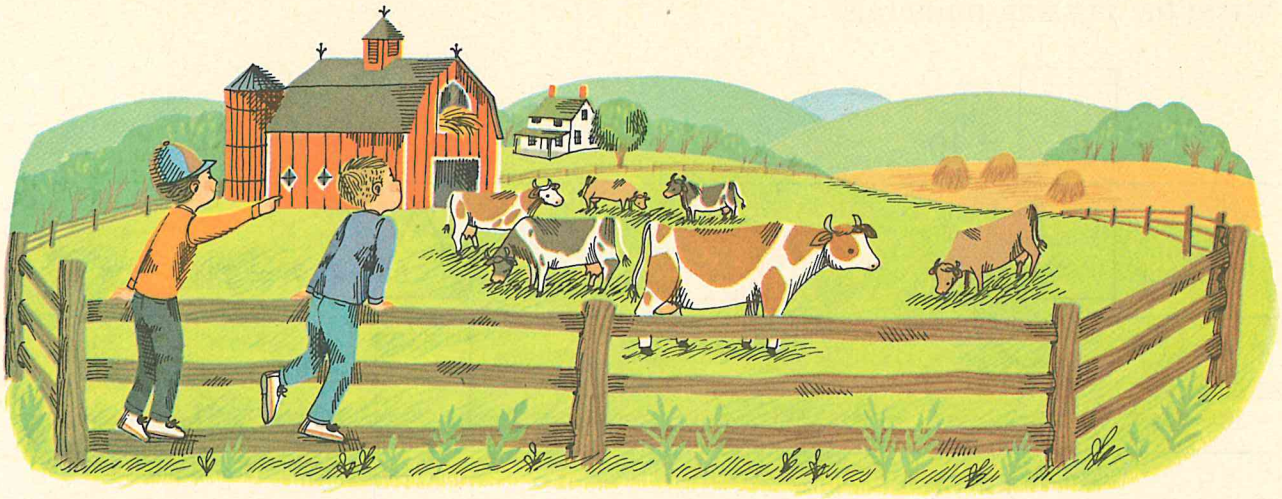
Alice saw 10 monkeys playing. Nine of the monkeys went to eat. Then how many monkeys were playing?

___ ___ = ___

Six of the boys and 5 of the girls helped feed the animals. How many children helped?

___ ___ = ___

NAME _____



Fred counted 35 cows on one farm. Tom counted 24 cows on another farm. How many cows did the boys count?

$$\begin{array}{r} 35 \\ +24 \\ \hline \end{array}$$

____ ____ = ☐

A farmer had 87 cows on his farm. A man bought 32 of them. How many cows did the farmer have then?

$$\begin{array}{r} 87 \\ -32 \\ \hline \end{array}$$

____ ____ = ☐

On another farm, there were 34 large lambs and 62 small lambs. How many lambs were there on that farm?

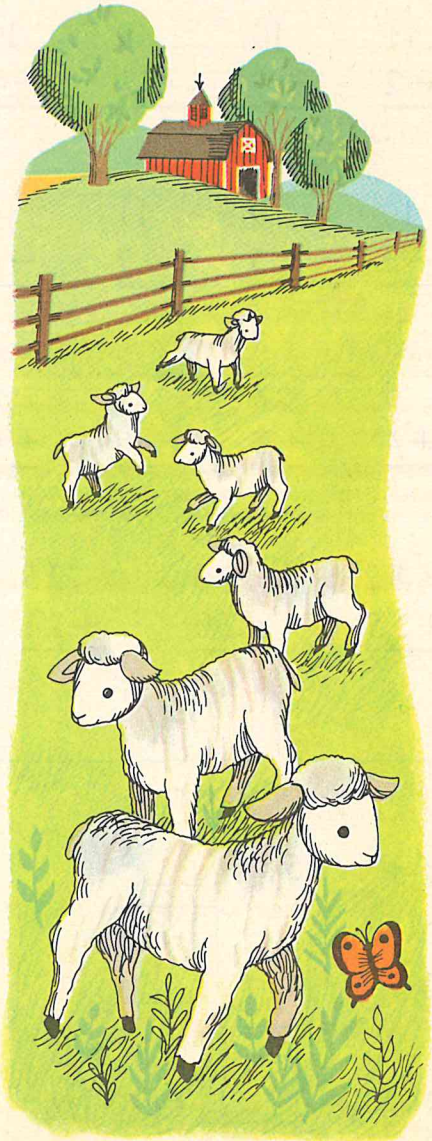
____

____ ____ = ☐

The farmer had 96 lambs. A man bought 34 of them. Then how many lambs did the farmer have?

____

____ ____ = ☐



NAME _____

Write the missing numerals.

$8 + \square = 10$ $\bigcirc + 8 = 10$

$4 + \square = 11$ $\triangle + 7 = 11$

$(1 + 4) + \bigcirc = 9$ $\square + (4 + 4) = 9$

$(5 + 3) + \bigcirc = 11$ $\square + (3 + 3) = 11$

Write the missing numerals.

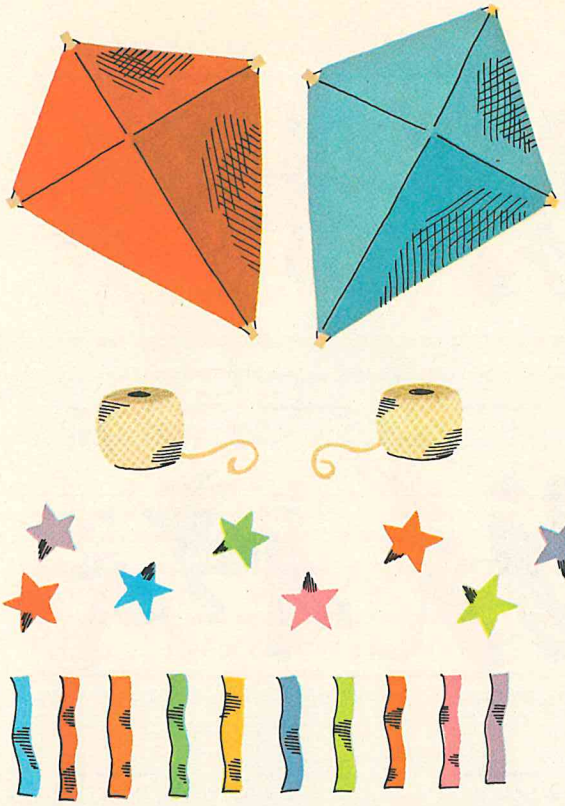
11	10	8	11	9	10	11	10	11	10
−2	−5	−3	−6	−3	−4	−9	−7	−4	−6
10	9	11	8	10	11	10	11	10	11
−2	−5	−7	−6	−3	−5	−8	−3	−1	−8
5	8	3	5	3	5	3	3	4	2
+4	+3	+6	+6	+7	+3	+8	+4	+6	+9
82	70	25	73	54	84	60	98		
+15	+20	+21	+13	−12	−73	−30	−21		

$3 + 1 + 5 =$ ⬡ $2 + 3 + 5 =$ □ $5 + 1 + 4 =$ ⬡

$6 + 1 + 4 =$ □ $1 + 5 + 5 =$ ⬡ $3 + 5 + 1 =$ □

$1 + 4 + \square = 10$ $5 + 2 + \triangle = 11$ $2 + 7 + \square = 11$

NAME _____



How many halves are there in one whole thing? ____

How many balls of string can each of the kites have? ____

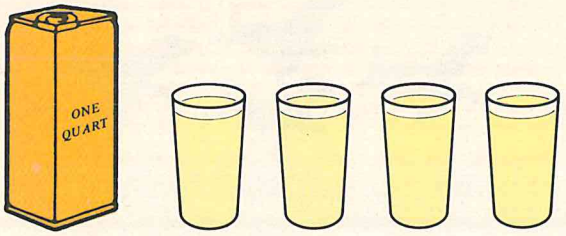
What is one half of 2? ____

How many stars can the boys have on each of the 2 kites? ____

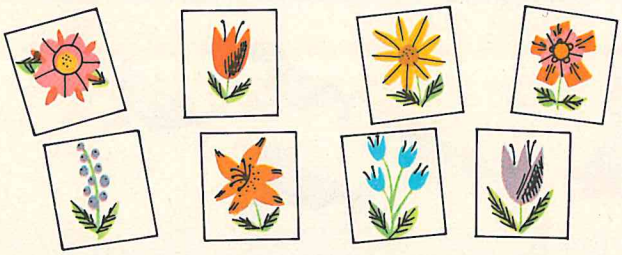
What is one half of 8? ____

How many pieces can the boys have on each of the 2 kites? ____

What is one half of 10? ____

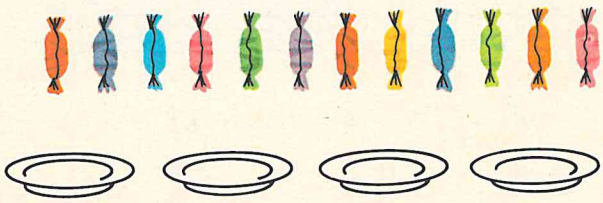


How many fourths are there in one whole thing? ____

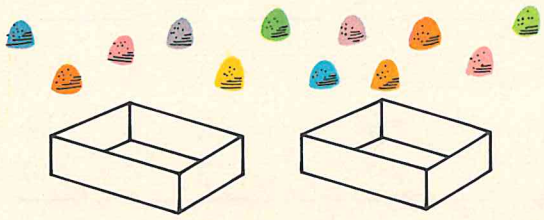


How many pictures can each of the 4 girls have? ____

What is one fourth of 8? ____



What is one fourth of 12? ____



What is one half of 12? ____

NAME _____

Think of number stories about the clowns and seals Alice and Bob watched at the circus.

___ + ___ = ___ ___ + ___ = ___

___ − ___ = ___ ___ − ___ = ___

___ + ___ = ___ ___ + ___ = ___

___ − ___ = ___ ___ − ___ = ___

9	3	12	12	8	4	12	12
+3	+9	−3	−9	+4	+8	−4	−8

NAME _____

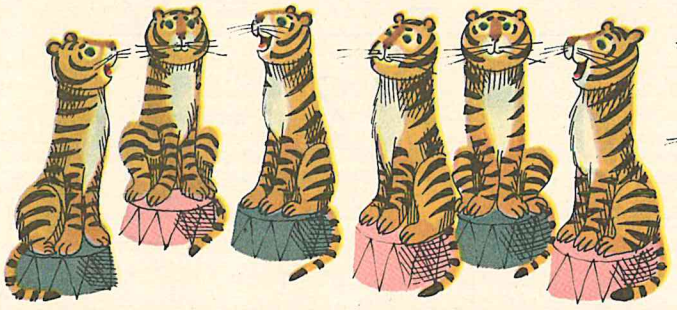
Susan and Ted saw dogs and tigers at the circus.
Think of number stories the pictures tell about the animals.

___ + ___ = ___

___ + ___ = ___

___ − ___ = ___

___ − ___ = ___



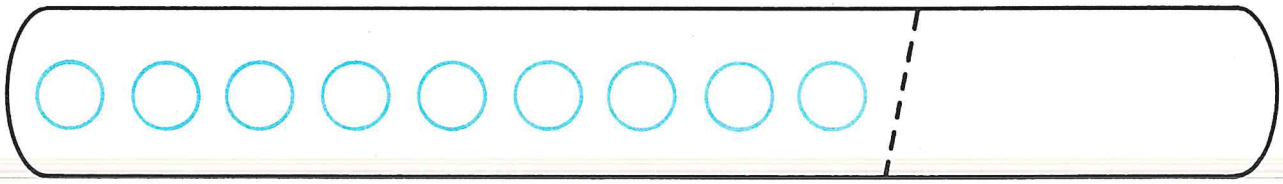
___ + ___ = ___

___ − ___ = ___

7	5	12	12	6	12	2	9	1	10
+5	+7	−5	−7	+6	−6	+8	−2	+9	−9

NAME _____

Draw more to make a set of 12.

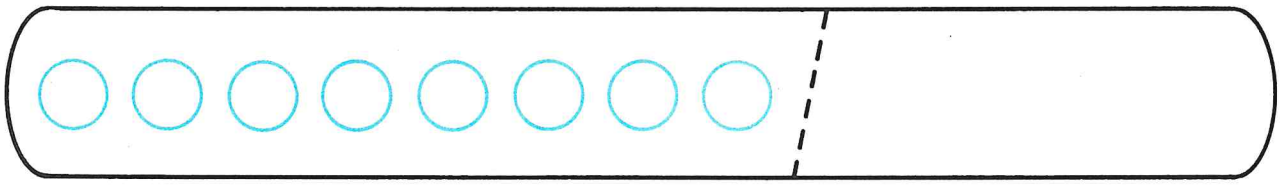


___ + ___ = 12

___ - 3 = ___

___ + ___ = 12

___ - 9 = ___

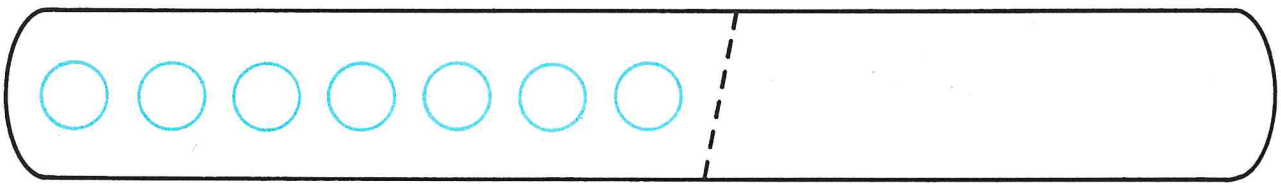


___ + ___ = 12

___ - 4 = ___

___ + ___ = 12

___ - 8 = ___

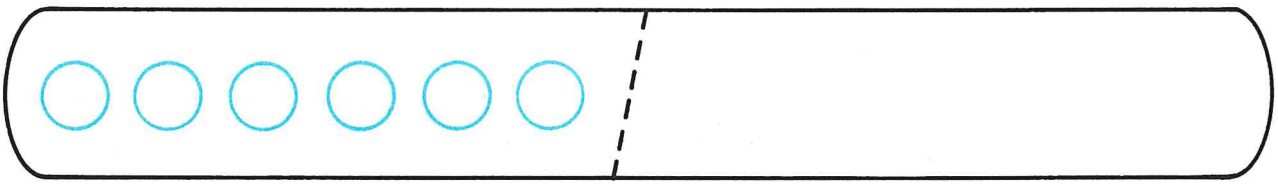


___ + ___ = 12

___ - 5 = ___

___ + ___ = 12

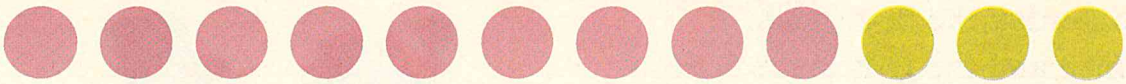
___ - 7 = ___



___ + ___ = 12

___ - 6 = ___

NAME _____



$9 + 3 = 10 + ____$ $9 + 3 = \square$

$7 + 4 = 10 + ____$ $7 + 4 = \square$

$6 + 5 = 10 + ____$ $6 + 5 = \square$

$8 + 4 = 10 + ____$ $8 + 4 = \square$

$9 + 2 = 10 + ____$ $9 + 2 = \square$

$7 + 5 = 10 + ____$ $7 + 5 = \square$

$8 + 3 = 10 + ____$ $8 + 3 = \square$

$6 + 6 = 10 + ____$ $6 + 6 = \square$

NAME _____

One Saturday the boys made 7 snowmen and the girls made 5. How many snowmen did the children make that day?

____ ____ = ____

That day 11 boys were skating. Four of them went away. How many boys were skating then?

____ ____ = ____

The girls made 3 large snowballs and 3 small ones. Then the boys made 6 more snowballs. How many snowballs did the children make?

____ ____ ____ = ____

The 12 snowmen had hats on. A boy knocked the hats off 3 snowmen. How many snowmen had hats on then?

____ ____ = ____

$10 - 5 =$ ☐	$11 - 5 =$ ⬡	$12 - 5 =$ ⬠	$9 - 0 =$ ☐
$8 - 6 =$ ⬠	$10 - 6 =$ ☐	$12 - 6 =$ ☐	$8 - 8 =$ ⬠
$10 - 9 =$ ☐	$11 - 9 =$ ⬠	$12 - 9 =$ ☐	$7 - 0 =$ ☐
$12 - 8 =$ ⬠	$12 - 7 =$ ☐	$11 - 7 =$ ⬡	$5 - 5 =$ ⬠

NAME _____

One day at the farm, Mary counted 3 red birds and 9 blue jays. How many birds did Mary count that day?

___ ___ = ___

One day Ted saw some birds eating. There were 4 robins, 2 red birds, and 4 blue jays. How many birds did Ted see that day?

___ ___ ___ = ___

9 + 1 = ☐	2 + 6 = ☐	4 + 8 = ☐	5 + 7 = ☐
9 + 3 = ☐	6 + 5 = ☐	2 + 8 = ☐	4 + 7 = ☐
5 + 5 = ☐	8 + 3 = ☐	3 + 9 = ☐	6 + 6 = ☐

5	2	4	7	3	6	4	8	1	3
+6	+9	+6	+5	+8	+6	+5	+4	+9	+2

2	3	1	9	5	1	3	8	5	3
+4	+7	+6	+2	+1	+8	+5	+2	+4	+3

4	7	2	3	5	4	2	6	2	1
4	1	3	6	2	1	5	1	2	5
4	3	7	3	4	6	5	3	7	6

41	51	80	32	61	23	61	71
+37	+33	+10	+17	+34	+14	+21	+22

NAME _____

Helen had 12 small pictures of birds. She gave 3 of them to Susan. How many pictures of birds did Helen have then?

___ ___ = ___

The man in the store had 36 pictures of birds to sell. Don bought 12 of them. Then how many pictures did the man have to sell? ___

___ ___ = ☐

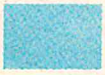
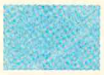
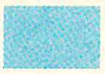
$9 - 8 =$ ☐ $11 - 2 =$ ☐ $7 - 5 =$ ☐ $12 - 6 =$ ☐

$10 - 8 =$ ☐ $8 - 3 =$ ☐ $11 - 5 =$ ☐ $10 - 3 =$ ☐

10	8	11	10	5	12	10	9	6	11
−4	−6	−4	−1	−1	−5	−6	−3	−4	−8
9	10	12	7	11	8	12	10	11	8
−4	−7	−9	−1	−3	−7	−8	−2	−6	−4
9	12	8	12	11	10	7	11	9	10
−1	−7	−5	−4	−9	−5	−3	−7	−7	−9
69	47	58	70	93	85	72	69		
−15	−24	−32	−20	−62	−14	−61	−52		

NAME _____

Write the missing sign, $<$, $=$, or $>$.

20		23	46		64	98		89
99		100	34		30 + 4	191		188

Write the missing numerals.

48, ____, ____, 51	59, ____, ____, 62	77, 78, 79, ____
87, ____, ____, 90	98, ____, ____, 101	107, ____, ____, 110
117, 118, ____, ____	177, 178, ____, ____	197, 198, ____, ____

Show what each numeral means.

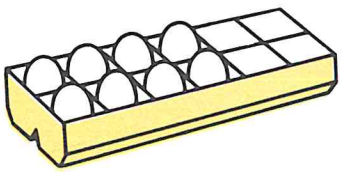
	hundreds	tens	ones		hundreds	tens	ones
138 means	____	____	____.	147 means	____	____	____.
165 means	____	____	____.	124 means	____	____	____.
180 means	____	____	____.	196 means	____	____	____.
102 means	____	____	____.	200 means	____	____	____.

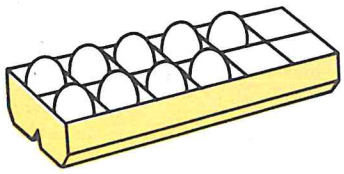
Write the missing numerals.

27 = 20 + ____	145 = 100 + ____ + 5
38 = ____ + 8	154 = 100 + ____ + 4

NAME _____

Make a dozen.





$8 + \square = 12$

$12 - \square = 8$

$9 + \square = 12$

$12 - \square = 9$

Write the missing numerals. Watch the signs.

$2 + 8 = \square$

$8 + 2 = \square$

$6 + \square = 9$

$2 + 9 = \square$

$7 + 3 = \square$

$5 + 5 = \square$

$4 + 6 = \square$

$8 + 3 = \square$

$3 + 8 = \bigcirc$

$9 + 2 = \bigcirc$

$7 + \bigcirc = 10$

$3 + 9 = \bigcirc$

$7 + 4 = \bigcirc$

$6 + 5 = \bigcirc$

$5 + 6 = \bigcirc$

$8 + 4 = \bigcirc$

$11 - 8 = \pentagon$

$11 - 2 = \pentagon$

$8 + \pentagon = 11$

$12 - 9 = \pentagon$

$11 - 4 = \pentagon$

$11 - 5 = \pentagon$

$5 + 7 = \pentagon$

$12 - 4 = \pentagon$

NAME _____

How many stamps? ____

How many stamps? ____

Subsets of 5	Left over

Subsets of 10	Left over

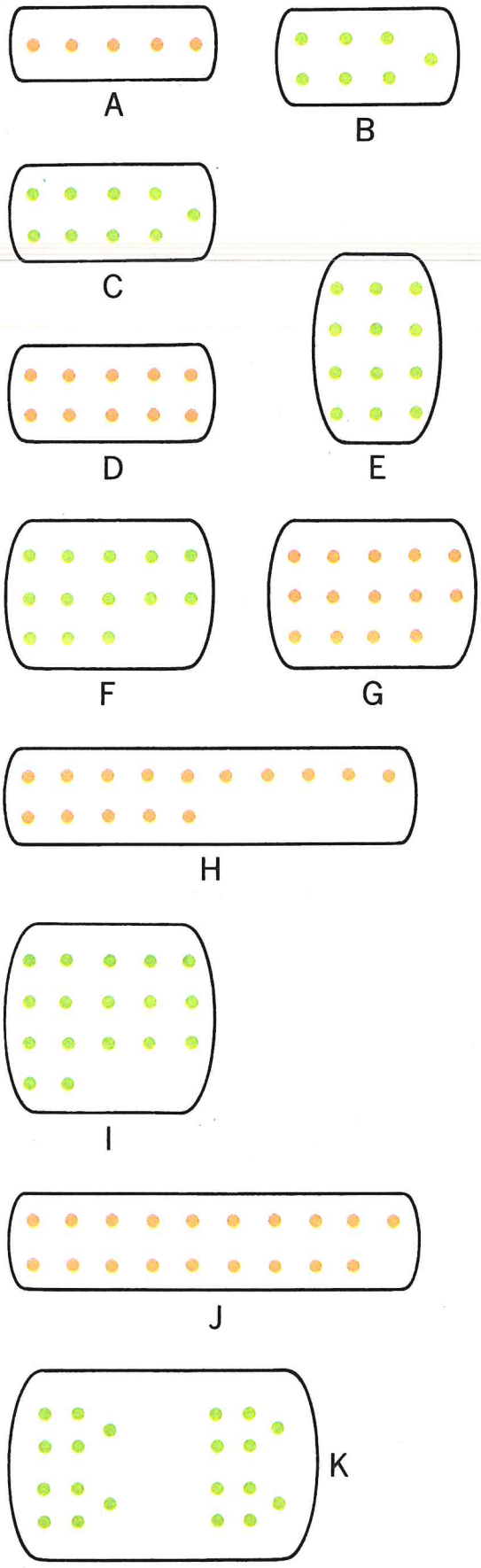
Subsets of 5	Left over

Subsets of 10	Left over

Subsets of 5	Left over

Subsets of 10	Left over

NAME _____

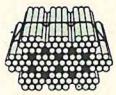


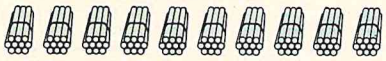
	How many dots?	Subsets of 5	Left over
A	5	1	0
B			
C			
D			
E			
F			
G			
H			
I			
J			
K			

NAME _____

_____ hundred.

_____ tens equals _____.





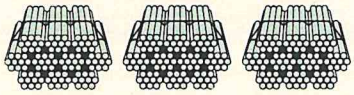
1 hundred _____ hundreds.

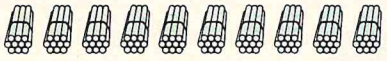
_____ tens plus _____ tens equals _____ tens, or _____.

---

2 hundreds _____ hundreds.

_____ tens plus _____ tens equals _____ tens, or _____.





3 hundreds _____ hundreds.

_____ tens plus _____ tens equals _____ tens, or _____.

---

4 hundreds _____ hundreds.

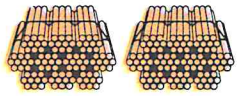
_____ tens plus 10 tens equals _____ tens, or _____.

---

5 hundreds _____ hundreds.

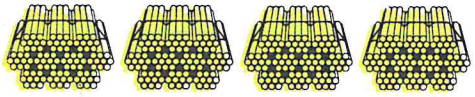
_____ tens plus 10 tens equals _____ tens, or _____.

NAME _____



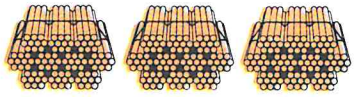
200 50 250

_____ tens plus _____ tens equals _____ tens.



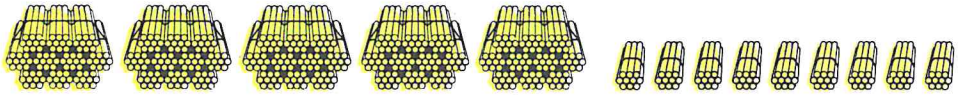
400 60 460

_____ tens plus _____ tens equals _____ tens.



300 10 310

_____ tens plus _____ ten equals _____ tens.



500 90 590

_____ tens plus _____ tens equals _____ tens.

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800 70 870

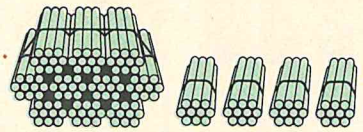
_____ tens plus _____ tens equals _____ tens.

---

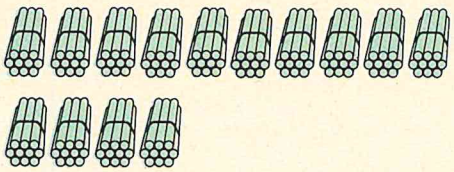
600 80 680

_____ tens plus _____ tens equals _____ tens.

NAME _____



____ hundred, ____ tens

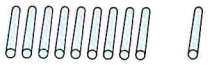


____ tens

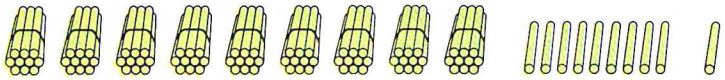
	hundreds	tens		
100 means	1	0	How many tens is this?	10
160 means	___	___	How many tens is this?	___
310 means	___	___	How many tens is this?	___
130 means	___	___	How many tens is this?	___
270 means	___	___	How many tens is this?	___
480 means	___	___	How many tens is this?	___

	hundreds	tens	ones		hundreds	tens	ones
12 tens is	1	2	0	23 tens is	___	___	___
14 tens is	___	___	___	25 tens is	___	___	___
15 tens is	___	___	___	30 tens is	___	___	___
17 tens is	___	___	___	34 tens is	___	___	___
19 tens is	___	___	___	40 tens is	___	___	___
20 tens is	___	___	___	45 tens is	___	___	___
21 tens is	___	___	___	50 tens is	___	___	___

NAME _____

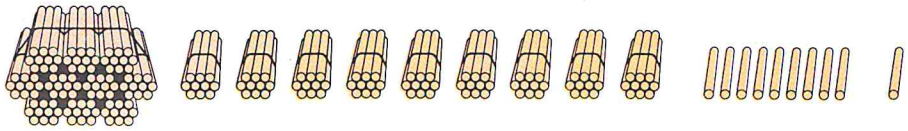


$9 + 1 =$ ☐



9 tens, 9 ones and 1 is ___ hundred.

$99 + 1 =$ ☐



1 hundred, 9 tens, 9 ones and 1 is ____ hundreds. $199 + 1 =$ ☐

2 hundreds, 9 tens, 9 ones and 1 is ____ hundreds. $299 + 1 =$ ☐

3 hundreds, 9 tens, 9 ones and 1 is ____ hundreds. $399 + 1 =$ ☐

4 hundreds, 9 tens, 9 ones and 1 is ____ hundreds. $499 + 1 =$ ☐

7 hundreds, 9 tens, 9 ones and 1 is ____ hundreds. $799 + 1 =$ ☐

9 hundreds, 9 tens, 9 ones and 1 is ____ hundreds, or one thousand.

$999 + 1 =$ ☐

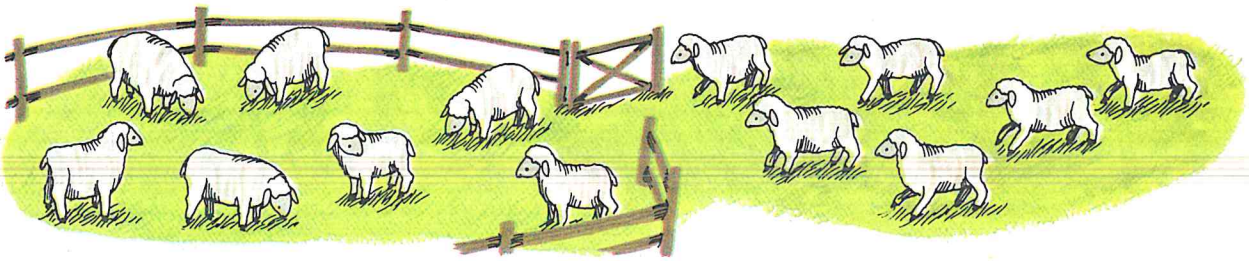
NAME _____

Tell number stories about the cowboys and ponies on a ranch.

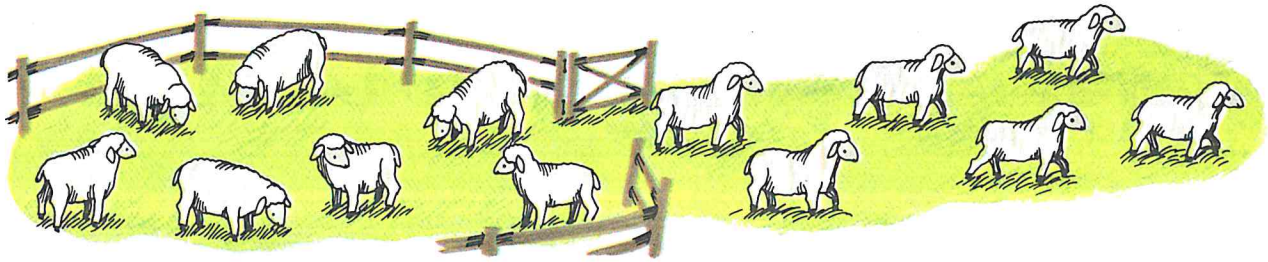
9	4	13	13	8	5	13	13
+4	+9	−4	−9	+5	+8	−5	−8

NAME _____

Think what number stories the pictures show about sheep on a sheep ranch.



___ + ___ = ___ ___ + ___ = ___



___ − ___ = ___ ___ − ___ = ___

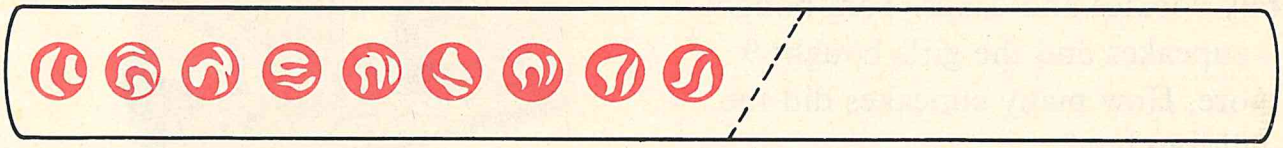
7	6	13	13	3	6	5	12	11	12
+6	+7	−6	−7	+8	+6	+8	−3	−5	−7
10	11	10	11	12	13	12	11	13	12
−2	−4	−7	−9	−5	−9	−6	−8	−4	−8
11	12	13	11	10	11	13	11	12	10
−6	−9	−5	−3	−1	−7	−8	−2	−4	−6

(2 + 4) + 5 = ☐ 6 + (4 + 3) = ☐ (1 + 3) + 9 = ☐

(4 + 3) + 5 = ☐ 3 + (1 + 8) = ☐ (3 + 5) + 5 = ☐

NAME _____

Draw more to make a set of 13 marbles.

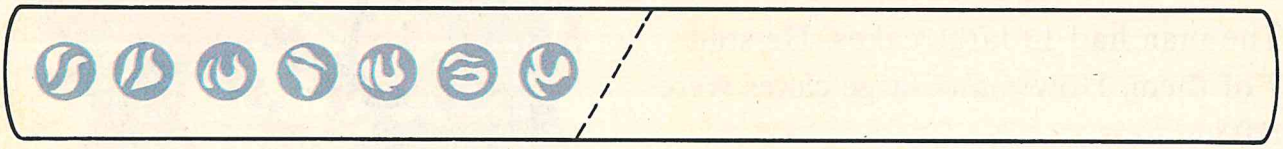


___ + ___ = 13
___ − 4 = ___

___ + ___ = 13
___ − 9 = ___

___ + ___ = 13
___ − 5 = ___

___ + ___ = 13
___ − 8 = ___



___ + ___ = 13
___ − 6 = ___

___ + ___ = 13
___ − 7 = ___

Write the missing numerals.

6 + ☐ = 11

10 − ☐ = 5

3 + 7 = ☐

3 + 9 = ☐

4 + 9 = ☐

12 − 8 = ☐

☐ − 3 = 8

5 + ☐ = 12

NAME _____

One day some boys and girls went to buy cookies and cakes. Tom bought 4 cupcakes and the girls bought 9 more. How many cupcakes did the children buy?

____ ____ = ____

The man in the store had 13 star cookies. Fred bought 5 of them. Then how many star cookies did the man have?

____ ____ = ____

Mary bought 4 cookies, Jane bought 5, and Alice bought 4. How many cookies did the girls buy?

____ ____ ____ = ____

The man had 13 large cakes. He sold 7 of them. How many large cakes were left?

____ ____ = ____

There were 12 apple cakes in the store. A man bought 5 of them. Then how many apple cakes were left?

____ ____ = ____

The man had 96 cupcakes. A boy bought 12 of them. How many cupcakes did the man have left? ____

____ ____ = ☐

NAME _____

One time 6 girls and 7 boys wanted to ride the ponies. How many children wanted to ride?

____ ____ = ____

Another time, 12 children wanted to ride the ponies. Only 9 children could ride. How many children could not ride?

____ ____ = ____

Write the missing numerals.

$4 + 9 = \square$	$13 - 9 = \triangle$	$5 + 7 = \square$	$12 - 7 = \triangle$
$3 + \square = 11$	$11 - \square = 3$	$\square + 4 = 12$	$12 - 4 = \square$
$5 + 8 = \square$	$2 + \square = 11$	$9 + 3 = \square$	$6 + \triangle = 12$
$4 + 7 = \square$	$13 - \triangle = 9$	$11 - 5 = \square$	$13 - 7 = \square$
$12 - 3 = \square$	$12 - 9 = \triangle$	$12 - \square = 7$	$13 - 6 = \square$
$8 + 5 = \square$	$11 - 6 = \square$	$11 - 9 = \square$	$12 - \triangle = 6$
$\triangle - 3 = 8$	$13 - 8 = \square$	$11 - 7 = \square$	$13 - 5 = \square$

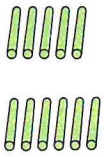
NAME _____

hundreds	tens	ones
10 tens is		

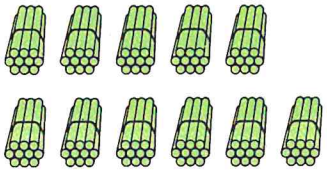
hundreds	tens	ones
11 tens is		

hundreds	tens	ones
12 tens is		

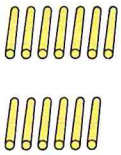
hundreds	tens	ones
13 tens is		



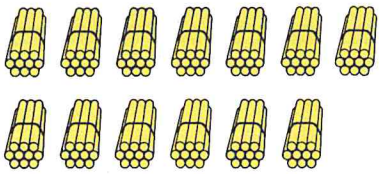
tens	ones
5	
+6	



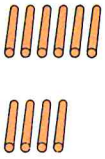
hundreds	tens	ones
50		
+60		



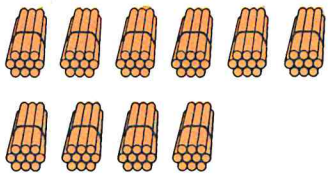
tens	ones
7	
+6	



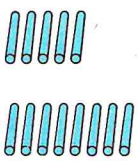
hundreds	tens	ones
70		
+60		



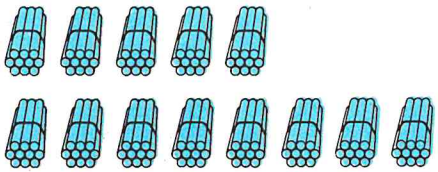
tens	ones
6	
+4	



hundreds	tens	ones
60		
+40		

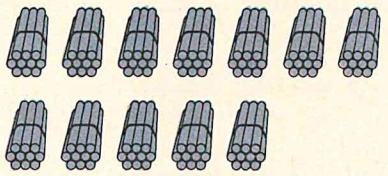


tens	ones
5	
+8	



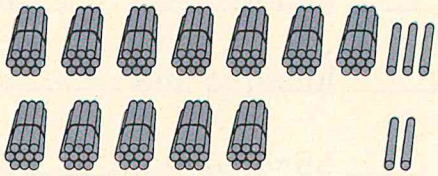
hundreds	tens	ones
50		
+80		

NAME _____



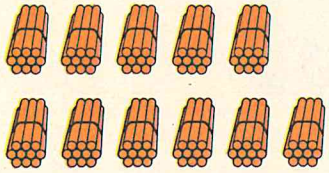
hundreds tens ones

70
+50

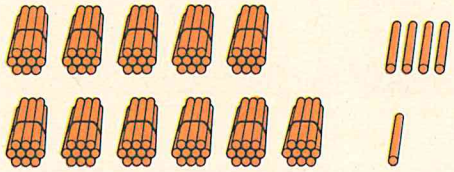


hundreds tens ones

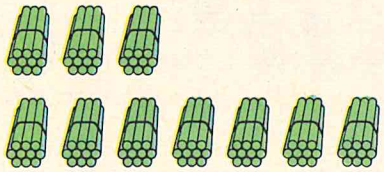
73
+52



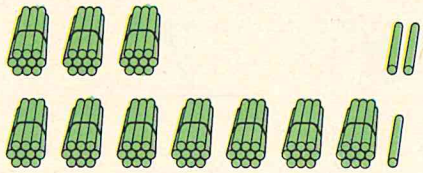
50
+60



54
+61



30
+70



32
+71

hundreds tens ones							
96	44	85	63	47	83	62	52
+42	+74	+23	+75	+92	+53	+66	+54
45	91	32	53	34	84	92	61
+84	+26	+85	+76	+93	+45	+12	+45
75	83	24	92	72	26	41	67
+42	+34	+92	+33	+37	+83	+68	+51

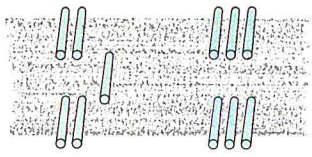
NAME _____

100 means ____ hundred. How many tens is this? ____

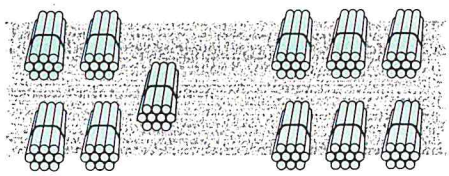
110 means ____ hundred and ____ ten. How many tens is this? ____

120 means ____ hundred and ____ tens. How many tens is this? ____

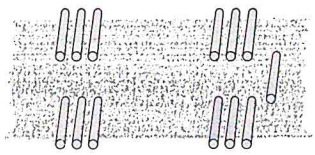
130 means ____ hundred and ____ tens. How many tens is this? ____



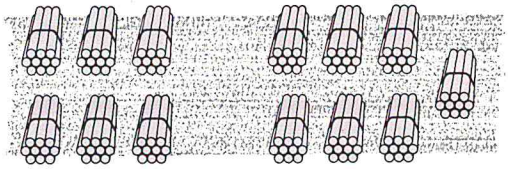
$$\begin{array}{r} 11 \\ -\ 6 \\ \hline \end{array}$$



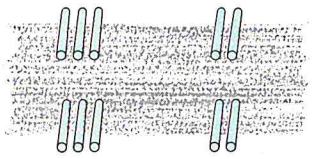
$$\begin{array}{r} 110 \\ -\ 60 \\ \hline \end{array}$$



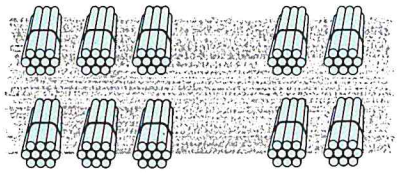
$$\begin{array}{r} 13 \\ -\ 7 \\ \hline \end{array}$$



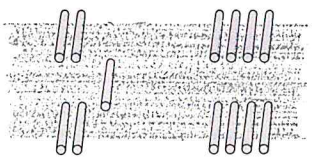
$$\begin{array}{r} 130 \\ -\ 70 \\ \hline \end{array}$$



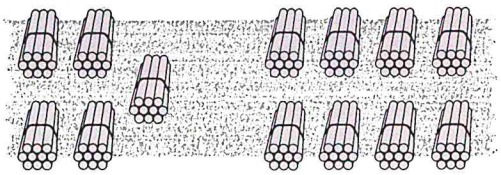
$$\begin{array}{r} 10 \\ -\ 4 \\ \hline \end{array}$$



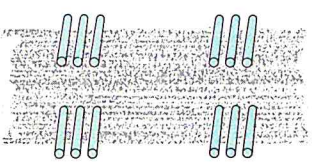
$$\begin{array}{r} 100 \\ -\ 40 \\ \hline \end{array}$$



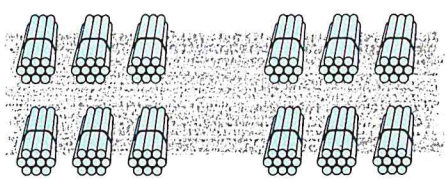
$$\begin{array}{r} 13 \\ -\ 8 \\ \hline \end{array}$$



$$\begin{array}{r} 130 \\ -\ 80 \\ \hline \end{array}$$

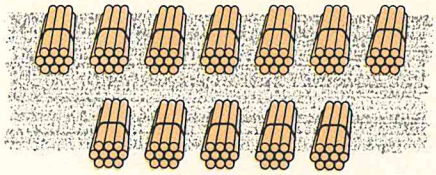


$$\begin{array}{r} 12 \\ -\ 6 \\ \hline \end{array}$$

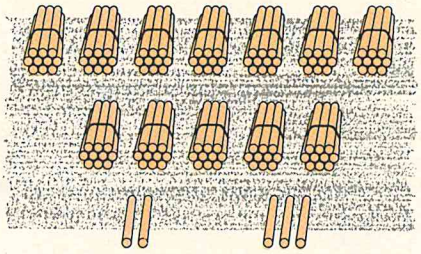


$$\begin{array}{r} 120 \\ -\ 60 \\ \hline \end{array}$$

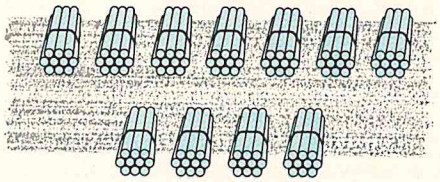
NAME _____



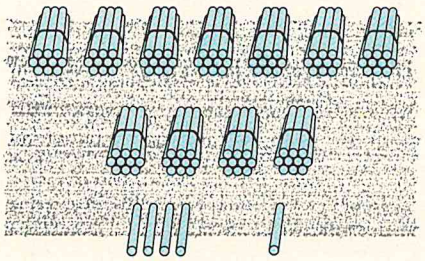
$$\begin{array}{r} 120 \\ -\ 50 \\ \hline \end{array}$$



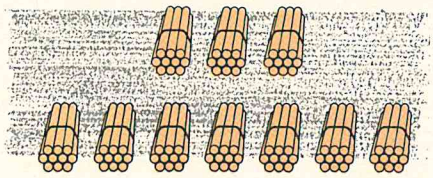
$$\begin{array}{r} 125 \\ -\ 53 \\ \hline \end{array}$$



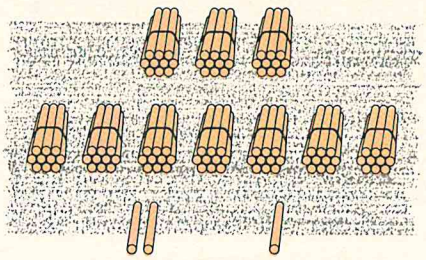
$$\begin{array}{r} 110 \\ -\ 40 \\ \hline \end{array}$$



$$\begin{array}{r} 115 \\ -\ 41 \\ \hline \end{array}$$



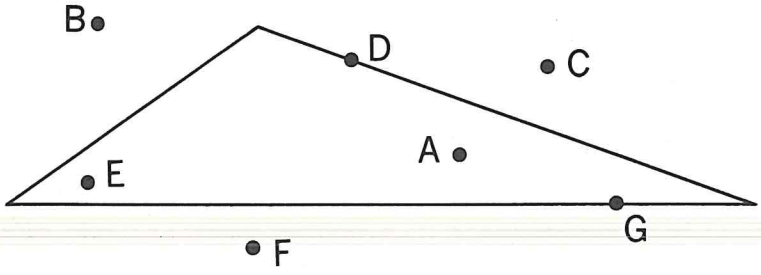
$$\begin{array}{r} 100 \\ -\ 70 \\ \hline \end{array}$$



$$\begin{array}{r} 103 \\ -\ 72 \\ \hline \end{array}$$

$\begin{array}{r} 116 \\ -\ 53 \\ \hline \end{array}$	$\begin{array}{r} 137 \\ -\ 62 \\ \hline \end{array}$	$\begin{array}{r} 128 \\ -\ 45 \\ \hline \end{array}$	$\begin{array}{r} 139 \\ -\ 54 \\ \hline \end{array}$	$\begin{array}{r} 117 \\ -\ 73 \\ \hline \end{array}$	$\begin{array}{r} 126 \\ -\ 82 \\ \hline \end{array}$	$\begin{array}{r} 117 \\ -\ 61 \\ \hline \end{array}$	$\begin{array}{r} 134 \\ -\ 83 \\ \hline \end{array}$
$\begin{array}{r} 137 \\ -\ 94 \\ \hline \end{array}$	$\begin{array}{r} 128 \\ -\ 73 \\ \hline \end{array}$	$\begin{array}{r} 109 \\ -\ 56 \\ \hline \end{array}$	$\begin{array}{r} 139 \\ -\ 43 \\ \hline \end{array}$	$\begin{array}{r} 118 \\ -\ 34 \\ \hline \end{array}$	$\begin{array}{r} 109 \\ -\ 25 \\ \hline \end{array}$	$\begin{array}{r} 124 \\ -\ 62 \\ \hline \end{array}$	$\begin{array}{r} 109 \\ -\ 88 \\ \hline \end{array}$
$\begin{array}{r} 128 \\ -\ 32 \\ \hline \end{array}$	$\begin{array}{r} 106 \\ -\ 64 \\ \hline \end{array}$	$\begin{array}{r} 119 \\ -\ 27 \\ \hline \end{array}$	$\begin{array}{r} 128 \\ -\ 96 \\ \hline \end{array}$	$\begin{array}{r} 117 \\ -\ 85 \\ \hline \end{array}$	$\begin{array}{r} 119 \\ -\ 92 \\ \hline \end{array}$	$\begin{array}{r} 136 \\ -\ 71 \\ \hline \end{array}$	$\begin{array}{r} 105 \\ -\ 44 \\ \hline \end{array}$

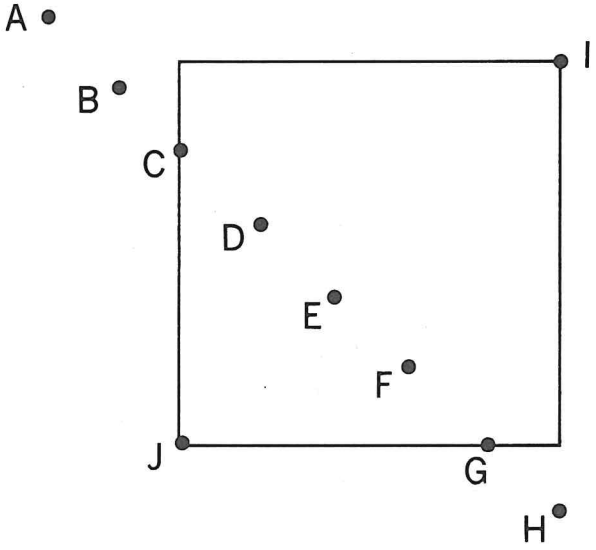
NAME _____



Inside A, _____

Outside _____

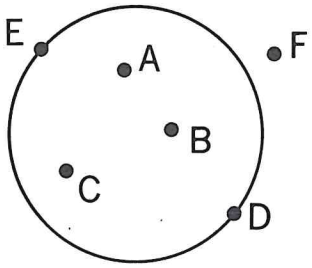
On _____



Inside _____

Outside _____

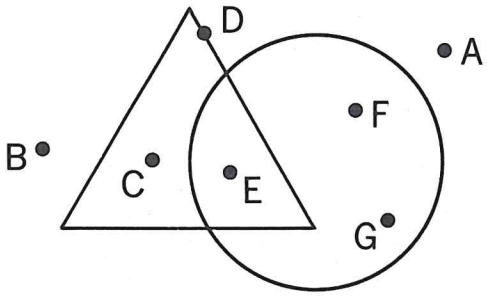
On _____



Inside _____

Outside _____

On _____

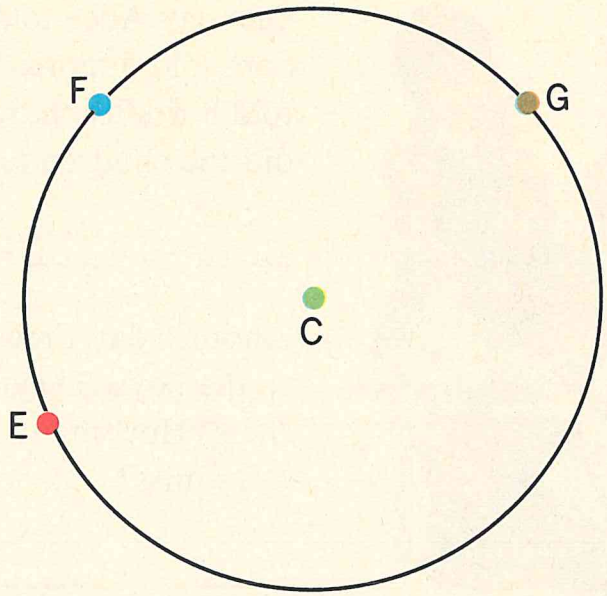


Inside the △ _____

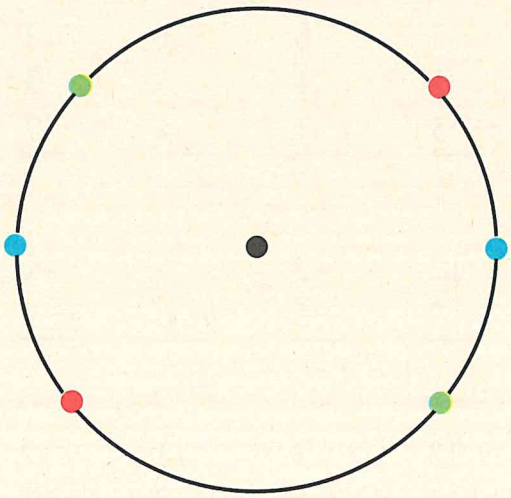
Inside the ○ _____

Inside the △
and inside the ○ _____

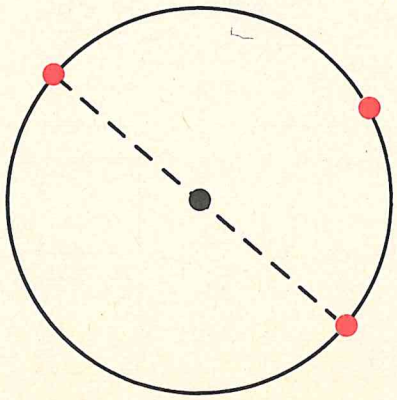
NAME _____

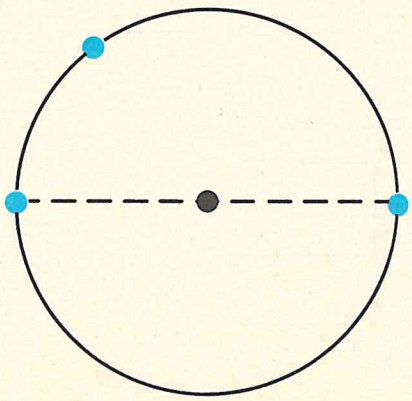


_____ and one half inches



_____ and one half inches





NAME _____

One day Alice told 4 riddles. Then Sam told 5 more. Next, Sarah told 3 riddles. How many riddles did the children tell that day?

___ ___ ___ = ___

Another day Fred told 13 riddles to the boys. They guessed 9 of them. How many riddles did the boys miss?

___ ___ = ___

Write the missing numerals.

5	1	2	7	8	1	2	7	7	1
2	2	4	1	1	6	3	2	1	4
6	9	7	5	1	4	7	2	3	6

12	13	9	12	13	6	12	11	4	13
−6	−8	+4	−7	−5	+6	−9	−3	+7	−6

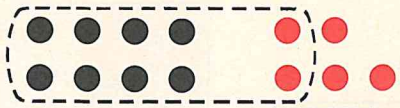
12	5	11	13	3	11	12	2	13	12
−3	+8	−9	−7	+8	−7	−5	+9	−4	−8

62	70	44	86	117	120	117	108
+56	+30	+83	+22	−53	−40	−26	−31

$7 + 6 = \square$ $\quad 11 - \square = 6$ $\quad \square + 4 = 11$

$\square + 8 = 11$ $\quad 6 + \square = 10$ $\quad \square - 9 = 4$

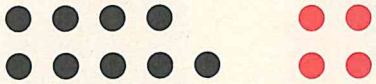
NAME _____



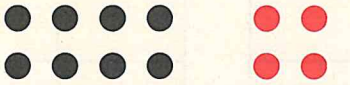
$8 + 5 =$ ☐

$6 + 7 =$ ☐

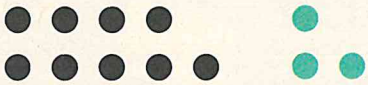
$7 + 5 =$ ☐



$9 + 4 =$ ☐



$8 + 4 =$ ☐



$9 + 3 =$ ☐

$5 + 8 =$ ☐

$7 + 6 =$ ☐

$9 + 2 =$ ☐

$5 + 7 =$ ☐

$8 + 3 =$ ☐

$4 + 9 =$ ☐

$4 + 8 =$ ☐

$3 + 9 =$ ☐

$13 - 8 =$ ⬡

$13 - 6 =$ ⬡

$11 - 2 =$ ⬡

$12 - 7 =$ ⬡

$11 - 3 =$ ⬡

$13 - 9 =$ ⬡

$12 - 8 =$ ⬡

$12 - 9 =$ ⬡

$13 - 5 =$ ⬠

$13 - 7 =$ ⬠

$11 - 9 =$ ⬠

$12 - 5 =$ ⬠

$11 - 8 =$ ⬠

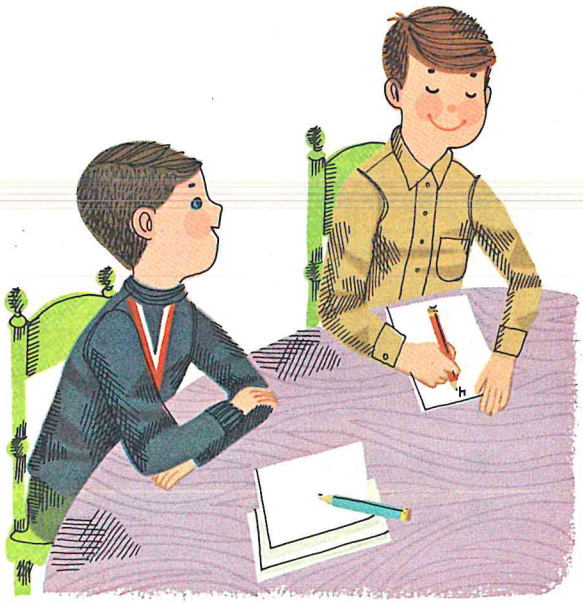
$13 - 4 =$ ⬠

$12 - 4 =$ ⬠

$12 - 3 =$ ⬠

NAME _____

Find the pattern



First Number	Answer
6	11
2	7
3	8
1	

First Number	Answer
3	5
9	11
6	8
1	
4	
5	

First Number	Answer
3	7
0	4
8	12
2	6
6	
5	
1	
9	

First Number	Answer
9	8
5	4
3	2
1	
6	
11	
19	
21	

First Number	Answer
6	4
9	7
5	3
8	
7	
2	
11	
10	

First Number	Answer
10	6
7	3
8	4
6	
12	
13	
9	
4	

NAME _____

First Number	Answer
1	7
3	9
5	11
4	
2	
7	

First Number	Answer
40	50
70	80
10	20
30	
60	
80	

First Number	Answer
10	5
8	3
7	2
9	
5	
13	

First Number	Answer
60	40
90	70
50	30
80	
40	
70	

First Numbers	Answer
1,2	4
2,3	6
2,4	7
3,5	9
2,5	

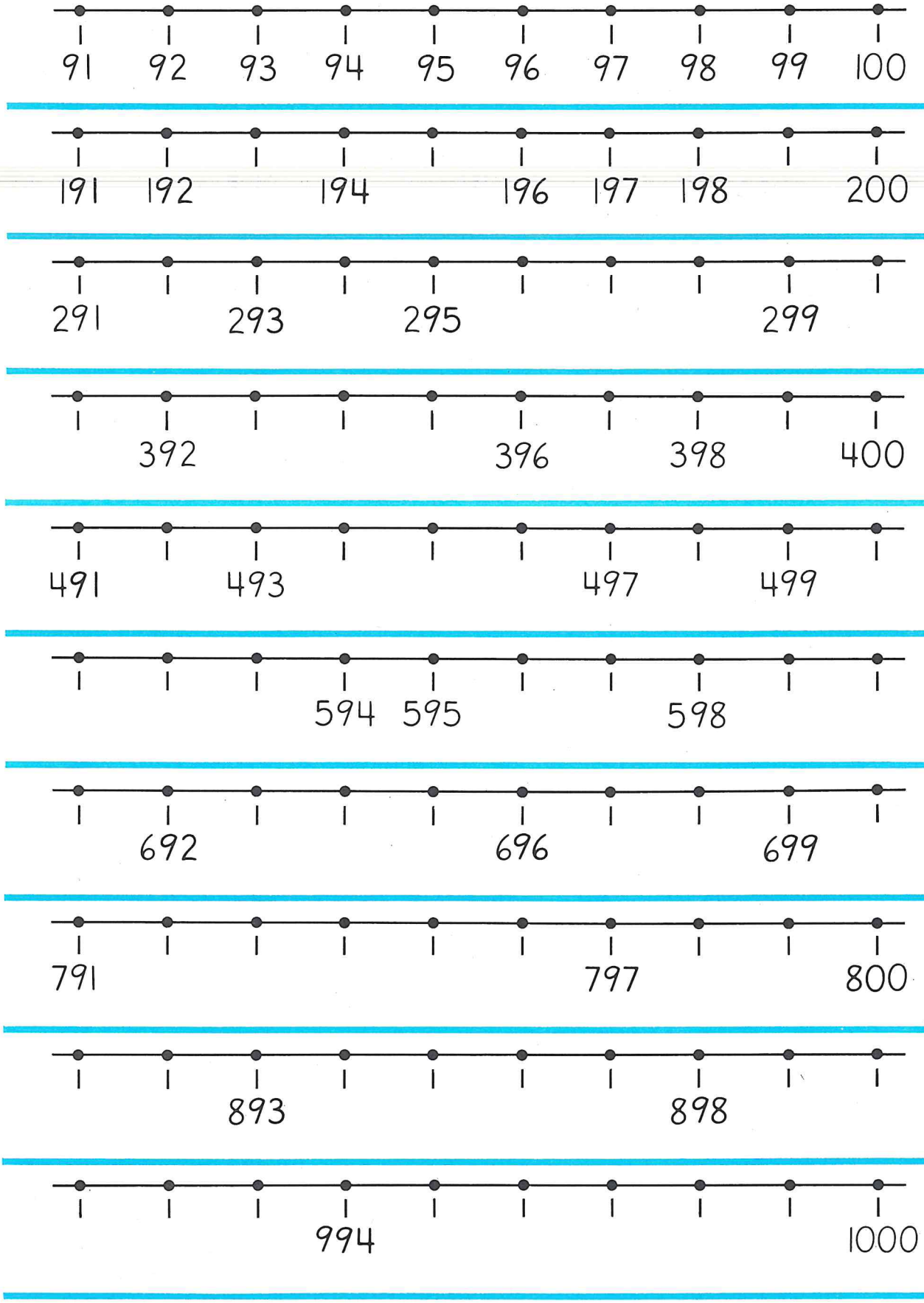
First Numbers	Answer
2,4	8
3,5	10
4,1	7
3,4	
4,5	

First Numbers	Answer
3,4	5
3,5	6
4,6	8
4,7	
5,4	

First Numbers	Answer
8,6	9
4,2	1
6,3	4
6,7	
9,3	

NAME _____

Write the missing numerals.



NAME _____

253, 254, 255, _____	353, 354, 355, _____	453, 454, 455, _____
621, 622, _____, 624	721, 722, _____, 724	821, 822, _____, 824
413, _____, 415, 416	513, _____, 515, 516	613, _____, 615, 616
2, _____, 4, _____	402, _____, 404, _____	802, _____, 804, _____
212, 213, _____, _____	412, 413, _____, _____	612, 613, _____, _____
352, _____, _____, 355	652, _____, _____, 655	952, _____, _____, 955
_____, _____, 98, 99	_____, _____, 398, 399	_____, _____, 798, 799
697, 698, 699, _____	797, 798, 799, _____	897, 898, 899, _____
9, _____, _____, 12	309, _____, _____, 312	509, _____, _____, 512
758, 759, _____, _____	858, 859, _____, _____	958, 959, _____, _____
_____, _____, 199, 200	_____, _____, 299, 300	_____, _____, 399, 400
_____, 500, _____, 502	_____, 700, _____, 702	_____, 900, _____, 902
_____, _____, 401, 402	_____, _____, 601, 602	_____, _____, 801, 802
797, 798, _____, _____	897, 898, _____, _____	997, 998, _____, _____

NAME _____

The boys and girls are giving plays about children in other lands.
Think about the number stories which the pictures show.

___ + ___ = ___ ___ + ___ = ___

___ − ___ = ___ ___ − ___ = ___

___ + ___ = ___ ___ + ___ = ___

___ − ___ = ___ ___ − ___ = ___

9	5	14	14	8	6	14	14
+5	+9	−5	−9	+6	+8	−6	−8

NAME _____

The boys are dressed like children of another land.
Think about the number stories which the pictures show.

___ + ___ = ___

___ − ___ = ___

___ + ___ = 14

___ − 5 = ___

___ + ___ = 14

___ − 9 = ___

___ + ___ = 14

___ − 6 = ___

___ + ___ = 14

___ − 8 = ___

___ + ___ = 14

___ − 7 = ___

NAME _____

$9 + 5 = 10 + ____$ $9 + 5 = \boxed{14}$ ✓

$7 + 6 = 10 + ____$ $7 + 6 = \boxed{13}$ ✓

$8 + 5 = 10 + ____$ $8 + 5 = \boxed{13}$ ✓

$8 + 6 = 10 + ____$ $8 + 6 = \boxed{14}$ ✓

$9 + 4 = 10 + ____$ $9 + 4 = \boxed{13}$ ✓

$7 + 7 = 10 + ____$ $7 + 7 = \boxed{14}$ ✓

$8 + 0 = \boxed{9}$ ✗

$7 + 0 = \boxed{8}$ ✗

$12 + 5 = \boxed{17}$

$8 + 6 = \boxed{14}$ ✓

$6 + 6 = \boxed{12}$ ✓

$13 + 4 = \boxed{17}$

$13 + 5 = \boxed{18}$

$8 + 7 = \boxed{15}$ ✓

$0 + 9 = \boxed{10}$ ✗

$5 + 5 = \boxed{10}$ ✓

$14 + 5 = \boxed{19}$ ✓

$8 + 8 = \boxed{16}$ ✓

NAME _____

Five boys are watching the chipmunks. Nine more boys are coming to watch the chipmunks. How many boys will be watching the chipmunks then?

___ ___ = ___

There were 14 chipmunks playing. After they saw the boys, 8 of them went away. How many chipmunks were playing then?

___ ___ = ___

Write the missing numerals.

13 − 5 = ☐	12 − 9 = ☐	14 − 7 = ☐	11 − ☐ = 8
13 − 8 = ☐	12 − 6 = ☐	11 − 8 = ☐	14 − 5 = ☐
12 − 9 = ☐	13 − ☐ = 7	13 − ☐ = 4	12 − 5 = ☐
9 − 9 = ☐	14 − 6 = ☐	12 − 7 = ☐	8 − 0 = ☐
4 + 8 = ☐	9 + 5 = ☐	3 + 9 = ☐	6 + 8 = ☐

3	5	5	2	1	1	3	2	3	6
2	4	1	4	3	4	5	2	4	2
8	3	7	8	7	9	4	9	7	5

74	93	81	92	137	149	139	148
+64	+53	+65	+47	−42	−88	−76	−96

NAME _____

One day 6 boys and 8 girls went to find some leaves and cones. How many children went?

____ ____ = ____

Mary found 14 red leaves. She gave 9 of them to Alice to make a hat. How many leaves did Mary have then?

____ ____ = ____

The boys saw 4 chipmunks, 4 squirrels, and 5 rabbits. How many animals did the boys see?

____ ____ ____ = ____

The boys found 148 cones. They gave 62 of them to the girls. How many cones did the boys have then? ____

____ ____ = ☐

The boys gave the girls 62 cones. The girls found 42 more. How many cones did the girls have then? ____

____ ____ = ☐

NAME _____

54 = ____ tens, ____ ones

+20 = ____ tens, ____ ones

____ tens, ____ ones, or ☐

---

60 = ____ tens, ____ ones

+75 = ____ tens, ____ ones

____ tens, ____ ones, or ☐

---

72 = ____ tens, ____ ones

+30 = ____ tens, ____ ones

= ____ tens, ____ ones, or ☐

56	60	90	80	31	40	42	70
+80	+63	+50	+32	+70	+89	+90	+60
80	88	10	70	54	30	80	92
+27	+60	+90	+36	+90	+90	+53	+30
70	23	90	99	60	67	96	70
+71	+80	+25	+10	+88	+70	+40	+59

NAME _____

98 = ____ tens, ____ ones

−48 = ____ tens, ____ ones

____ tens, ____ ones, or ☐

---

119 = ____ tens, ____ ones

−50 = ____ tens, ____ ones

____ tens, ____ ones, or ☐

---

105 = ____ tens, ____ ones

−65 = ____ tens, ____ ones

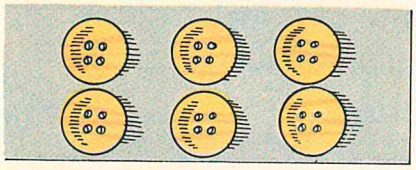
____ tens, ____ ones, or ☐

134	143	106	140	137	100	139	126
−90	−63	−80	−90	−57	−20	−70	−46
115	149	148	111	103	135	122	112
−85	−79	−50	−20	−50	−80	−62	−70
101	147	134	123	138	129	118	105
−91	−80	−64	−80	−48	−99	−38	−30

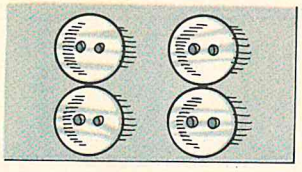
NAME _____

Bob bought 1 dozen cupcakes.
How many are there in 1 dozen? ____

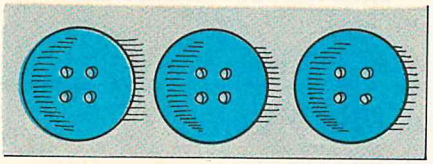
Bob gave one half dozen cupcakes to Fred.
How many are there in one half dozen? ____



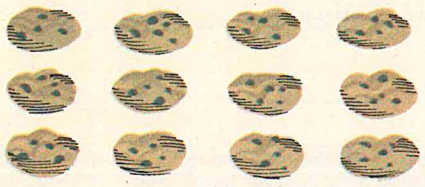
Jane needs 1 dozen of these buttons.
How many cards of the buttons
should she buy? ____



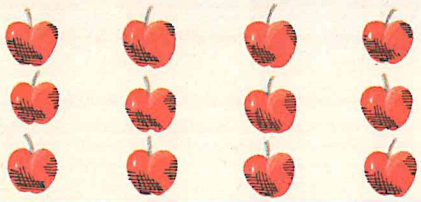
Alice needs 1 dozen of these buttons.
How many cards of the buttons
should she buy? ____



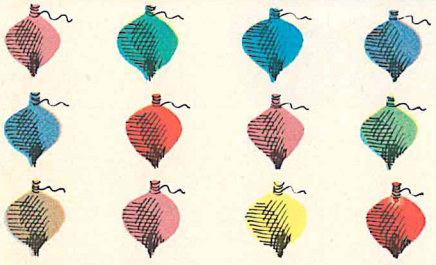
Sarah needs 1 dozen of these buttons.
How many cards of the buttons
should she buy? ____



Ann made 1 dozen cookies.
If she gives 2 cookies to each boy,
how many boys can she give cookies to? ____

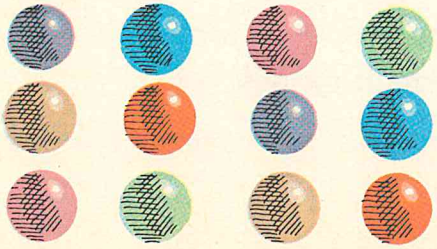


Mary had 1 dozen apples.
She gave one fourth of them to Helen.
How many apples did she give to Helen? ____



The man in the store had 1 dozen tops in a box.
Tom bought 3 of them.
How many tops did the man have then?

____ ____ = ____

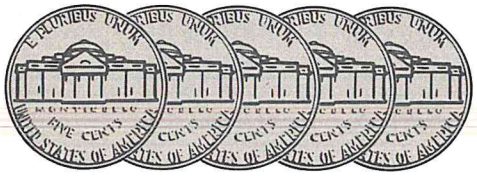


The man had 1 dozen balls to sell.
John bought one half dozen of them.
How many balls were left?

____ ____ = ____

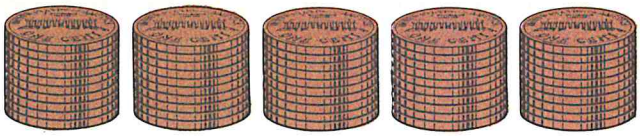
NAME _____

_____ cents

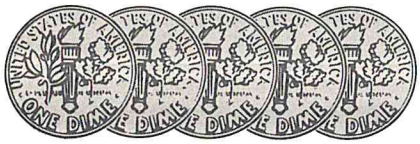


_____ cents

A quarter will buy as much as 25 pennies or 5 nickels. How much money is a quarter? _____ cents

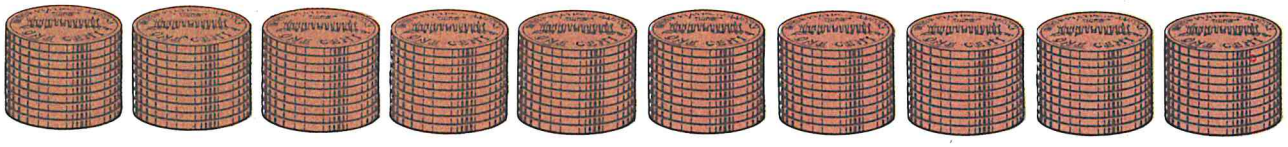


_____ cents



_____ cents

A half dollar will buy as much as 50 pennies or 5 dimes. How much money is a half dollar? _____ cents

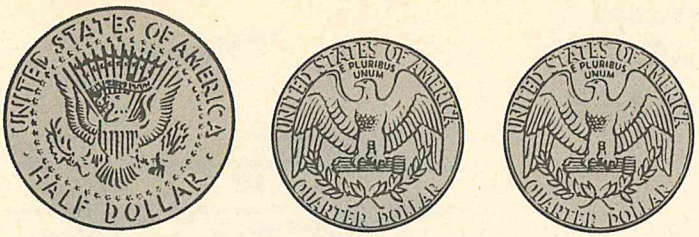


_____ cents

_____ cents

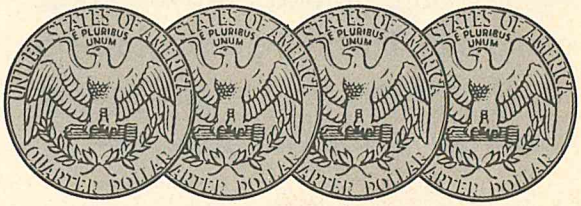
One dollar will buy as much as 100 pennies or 10 dimes. How much money is a dollar? _____ cents

NAME _____



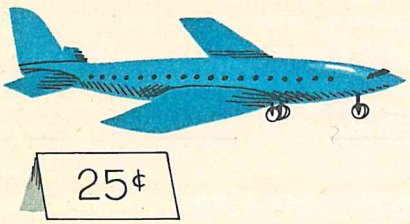
1 half dollar will
buy as much as

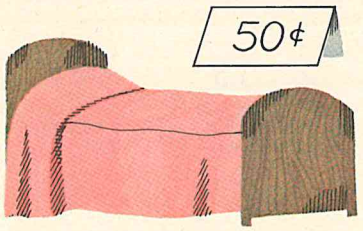
_____ quarters.

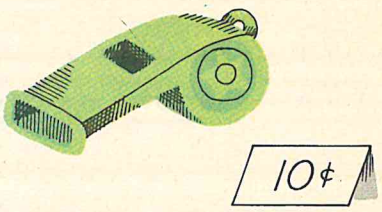


One dollar will
buy as much as _____ quarters.

One dollar will
buy as much as _____ half dollars.







How many airplanes can you buy with 1 half dollar? _____

How many airplanes can you buy with 1 dollar? _____

How many nickels do you need to buy 1 airplane? _____

How many doll beds can you buy with 1 dollar? _____

How many quarters do you need to buy 1 doll bed? _____

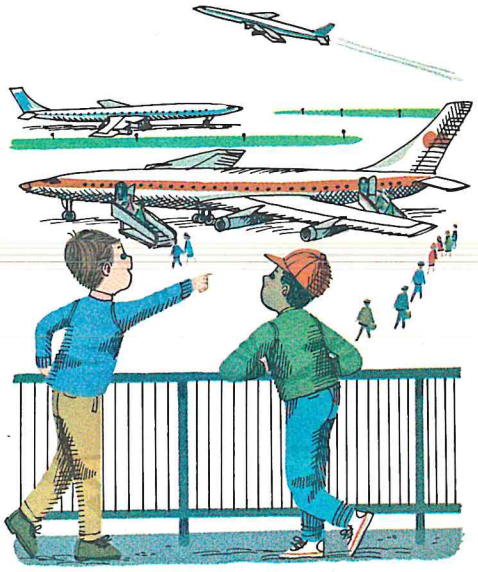
How many dimes do you need to buy 1 doll bed? _____

How many whistles can you buy with 1 half dollar? _____

How many whistles can you buy with 1 dollar? _____

NAME _____

One day Tom and Bob counted 14 planes at the airport. Then 5 of them took off. How many planes were at the airport then?



___ ___ = ___

An airplane landed and 78 people came out. Then 60 people came out of another plane. How many people came out of the two airplanes? ___

___ ___ = ☐

Add or subtract, and write the missing numerals.

12	13	14	13	12	14	12	12	14	13
−7	−9	−6	−8	−4	−8	−6	−3	−9	−6
2	1	5	1	2	3	3	2	1	2
7	2	1	1	3	4	6	2	7	6
4	8	6	9	9	4	5	8	6	4

71	54	60	35	148	103	140	136
+73	+80	+86	+70	−81	−30	−70	−56

Write the missing numerals.

11 − ⬡ = 9 5 + 7 = ☐ ⬠ + 8 = 11

☐ − 3 = 9 11 − ⬡ = 4 6 + ☐ = 11

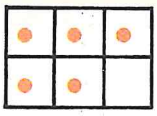
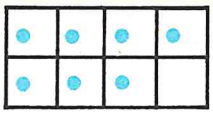
4 + 9 = 10 + ☐ 9 + 5 = 10 + ☐

NAME _____

$8 + \square = 9$	$8 + \bigcirc = 10$	$8 + \bigcirc = 11$
$9 + \square = 11$	$9 + \bigcirc = 12$	$9 + \bigcirc = 13$
$6 + \square = 12$	$6 + \bigcirc = 11$	$6 + \bigcirc = 10$
$7 + \square = 14$	$7 + \bigcirc = 13$	$7 + \bigcirc = 12$
$12 - \square = 8$	$13 - \bigcirc = 8$	$14 - \bigcirc = 8$
$14 - \square = 6$	$13 - \bigcirc = 6$	$12 - \bigcirc = 6$

$6 + 5 = \square$	$9 + 4 = \bigcirc$	$14 - 5 = \bigcirc$
$11 - 3 = \square$	$14 - 7 = \bigcirc$	$8 + 5 = \bigcirc$
$9 + 5 = \square$	$6 + 8 = \bigcirc$	$13 - 6 = \bigcirc$
$13 - 7 = \square$	$6 + 6 = \bigcirc$	$12 - 4 = \bigcirc$
$14 - 6 = \square$	$13 - 4 = \bigcirc$	$7 + 7 = \bigcirc$

NAME _____

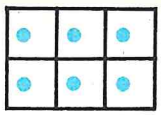
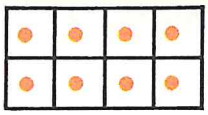
Odd Numbers

1, 3, 5, 7, 9

11, ____, ____, ____, ____

____, ____, ____, ____, ____

____, ____, ____, ____, ____

Even Numbers

2, 4, 6, 8, 10

12, ____, ____, ____, ____

____, ____, ____, ____, ____

____, ____, ____, ____, ____

Even Numbers	Odd Numbers
$2 = 1 + ____$	$3 = (1 + 1) + ____$
$4 = 2 + ____$	$5 = (2 + 2) + ____$
$6 = 3 + ____$	$7 = (3 + 3) + ____$
$8 = 4 + ____$	$9 = (4 + 4) + ____$
$10 = 5 + ____$	$11 = (5 + 5) + ____$

$50 + 50$	Odd	Even
$14 + 14$	Odd	Even
$(14 + 14) + 1$	Odd	Even
$13 + 13$	Odd	Even
$(11 + 11) + 1$	Odd	Even

NAME _____

Do you see a pattern?

$1 + 5 =$ ☐ $9 + 9 =$ ⬡ $11 + 3 =$ ☐

$9 + 1 =$ ⬠ $7 + 1 =$ ☐ $13 + 3 =$ ⬡

I added two _____ numbers. (odd, even)

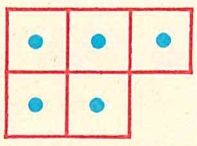
My answers are _____ numbers. (odd, even)

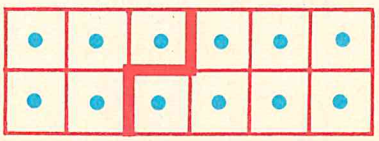
Does the pattern still work?

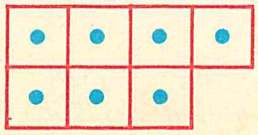
+	3	5	7	9
3	6	8	10	
5				
7				
9				

$$\begin{array}{r} 13 \\ +\,11 \\ \hline \end{array} \qquad \begin{array}{r} 15 \\ +\,13 \\ \hline \end{array} \qquad \begin{array}{r} 21 \\ +\,17 \\ \hline \end{array}$$

Will the pattern always work?

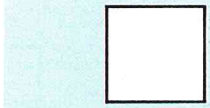
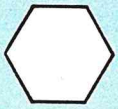
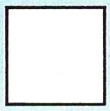
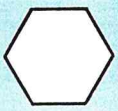






$5 + 7 =$ ☐

NAME _____

 < 7	 > 20
____, ____, ____, ____	____, ____, ____, ____
 < 100	 > 100
____, ____, ____, ____	____, ____, ____, ____

Write the missing sign, $>$, $<$, or $=$.

$6 + 6 \quad \square \quad 10$	$8 + 6 \quad \square \quad 15$	$9 + 4 \quad \square \quad 13$
$6 + 6 \quad \square \quad 11$	$8 + 6 \quad \square \quad 14$	$8 + 5 \quad \square \quad 13$
$6 + 6 \quad \square \quad 12$	$8 + 6 \quad \square \quad 13$	$7 + 6 \quad \square \quad 13$
$6 + 6 \quad \square \quad 13$	$8 + 6 \quad \square \quad 12$	$6 + 7 \quad \square \quad 13$

$14 - 7 \quad \square \quad 6$	$12 - 4 \quad \square \quad 10$	$10 - 3 \quad \square \quad 8$
$14 - 7 \quad \square \quad 7$	$12 - 4 \quad \square \quad 9$	$11 - 4 \quad \square \quad 8$
$14 - 7 \quad \square \quad 8$	$12 - 4 \quad \square \quad 8$	$12 - 5 \quad \square \quad 8$
$14 - 7 \quad \square \quad 9$	$12 - 4 \quad \square \quad 7$	$13 - 6 \quad \square \quad 8$

NAME _____

Show what each numeral means.

860 means ____ tens.

180 means ____ tens.

130 means ____ tens.

110 means ____ tens.

120 means ____ tens.

160 means ____ tens.

320 means ____ tens.

150 means ____ tens.

---

hundreds tens ones

14 tens means ___ ___ ___.

13 tens means ___ ___ ___.

31 tens means ___ ___ ___.

10 tens means ___ ___ ___.

hundreds tens ones

12 tens means ___ ___ ___.

43 tens means ___ ___ ___.

60 tens means ___ ___ ___.

77 tens means ___ ___ ___.

---

hundreds tens ones

341 means ___ ___ ___.

104 means ___ ___ ___.

500 means ___ ___ ___.

138 means ___ ___ ___.

409 means ___ ___ ___.

164 means ___ ___ ___.

141 means ___ ___ ___.

188 means ___ ___ ___.

341 means ____ tens, ____ one.

104 means ____ tens, ____ ones.

500 means ____ tens, ____ ones.

138 means ____ tens, ____ ones.

409 means ____ tens, ____ ones.

164 means ____ tens, ____ ones.

141 means ____ tens, ____ one.

188 means ____ tens, ____ ones.

NAME _____

In each row, write the numerals that are missing.

501, 502, ____, ____, 505, 506, 507, ____, 509, ____

____, 898, 899, ____, ____, 902, 903, ____, 905, 906

312, ____, ____, 315, 316, 317, 318, ____, ____

657, 658, ____, ____, 661, 662, 663, ____, ____, 666

____, ____, 103, 104, 105, ____, 107, 108, 109, ____

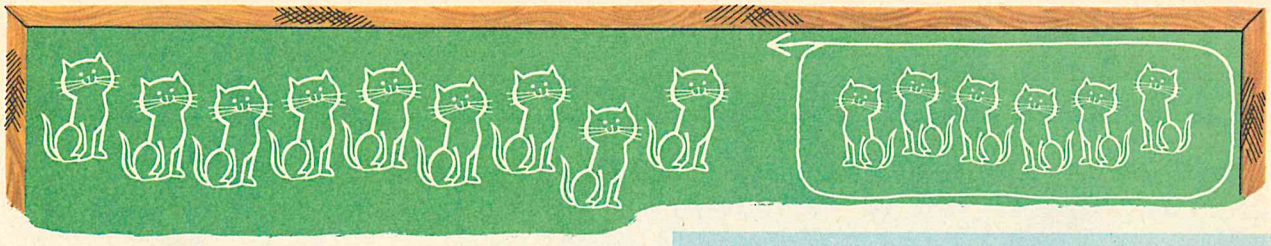
429, ____, 431, ____, 433, ____, 435, 436, ____, 438

Write the numeral that comes before and the numeral that comes after each of these numerals.

____, 249, ____	____, 302, ____	____, 999, ____
____, 509, ____	____, 879, ____	____, 634, ____
____, 911, ____	____, 440, ____	____, 777, ____

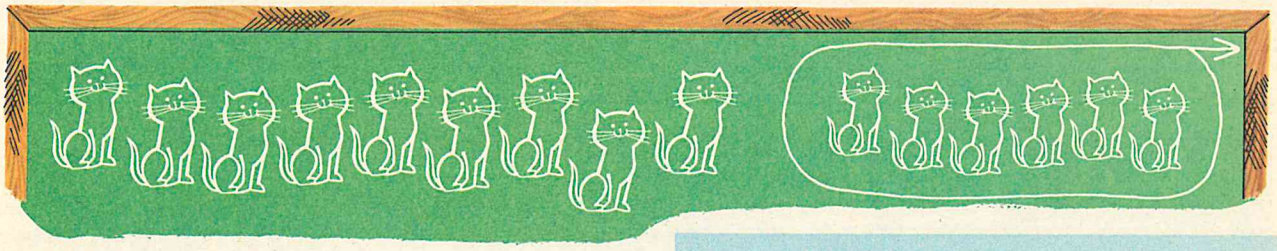
96, 69, 87 ✓ X	99, 110, 101	215, 251, 115
431, 413, 314	231, 123, 312	909, 919, 991
435, 534, 354	263, 326, 632	989, 899, 998

NAME _____



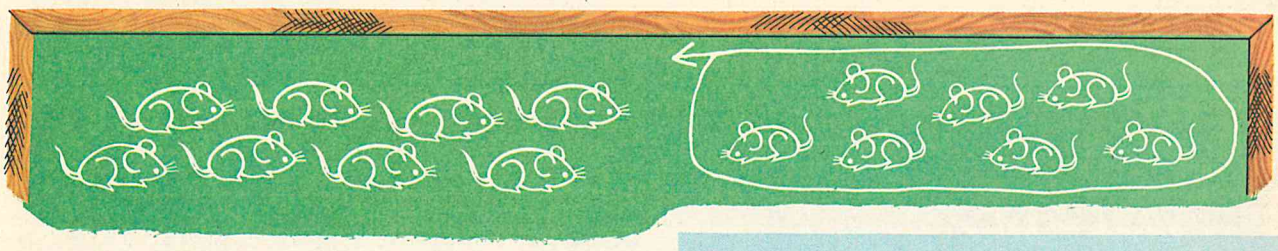
___ + ___ = ___

___ + ___ = ___



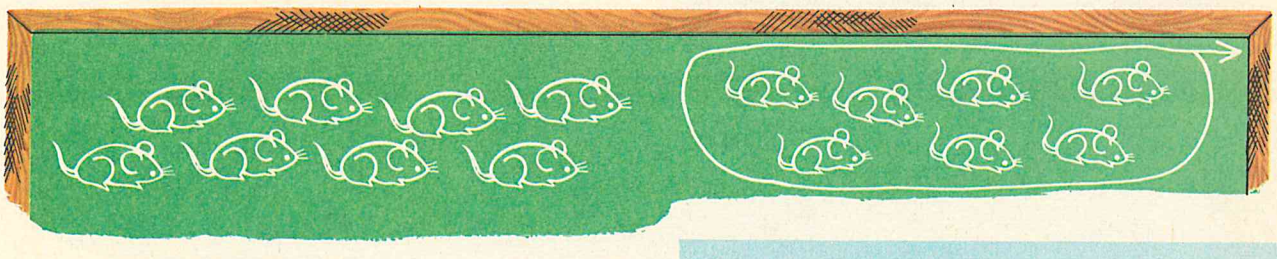
___ − ___ = ___

___ − ___ = ___



___ + ___ = ___

___ + ___ = ___



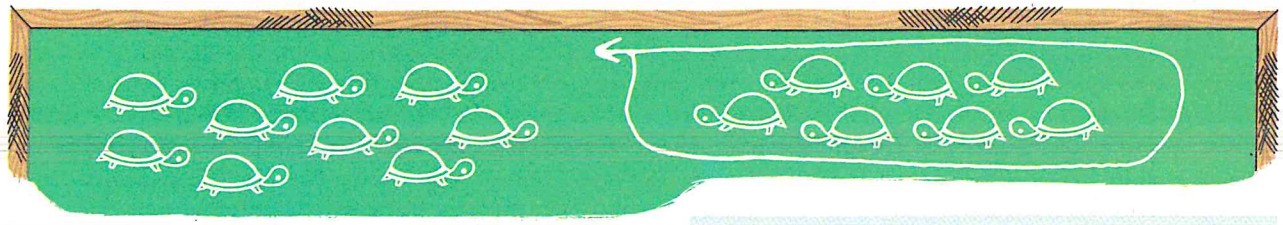
___ − ___ = ___

___ − ___ = ___

9	6	15	15	8	7	15	15
+6	+9	−6	−9	+7	+8	−7	−8

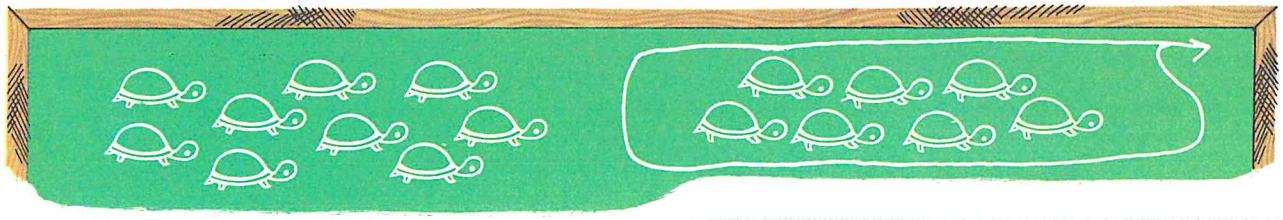
NAME _____

Look at the pictures and think of number stories about the turtles and frogs.



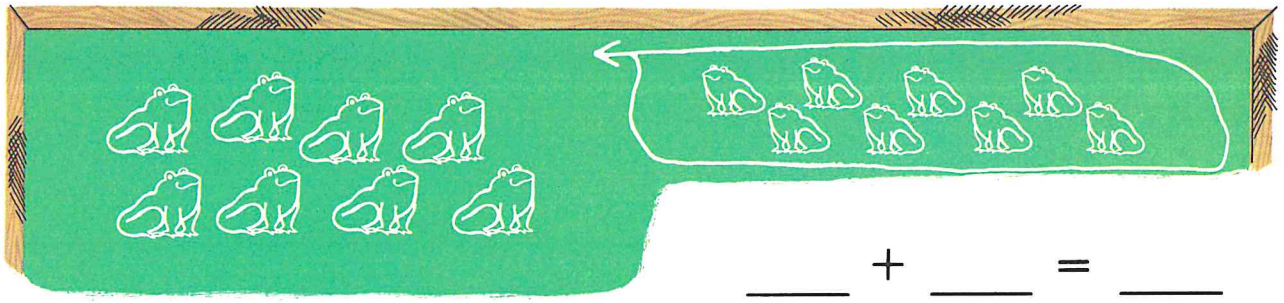
___ + ___ = ___

___ + ___ = ___

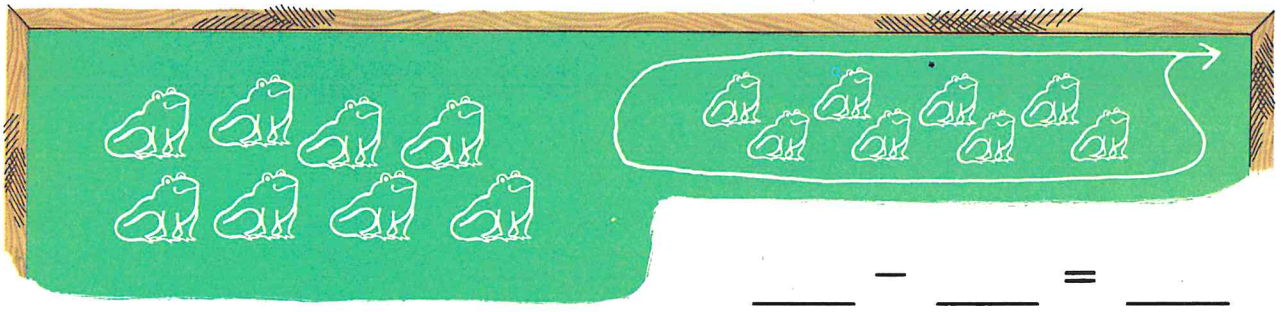


___ − ___ = ___

___ − ___ = ___



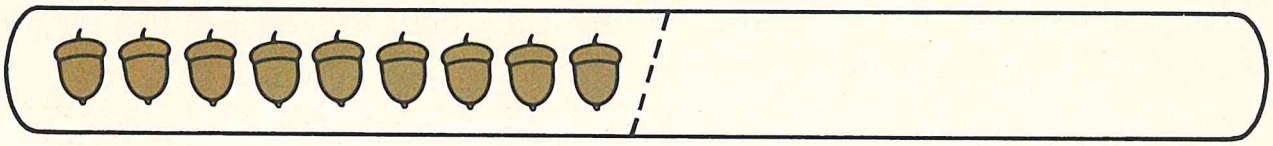
___ + ___ = ___



___ − ___ = ___

9	7	16	16	8	16
+7	+9	−7	−9	+8	−8

NAME _____

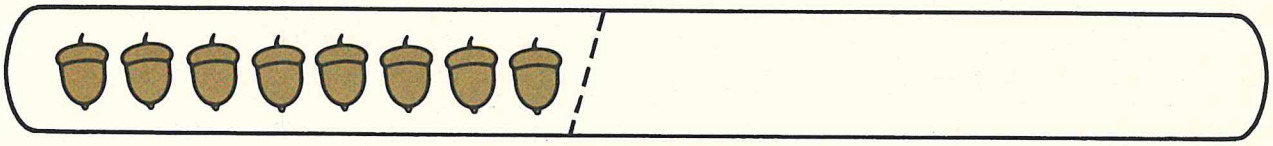


___ + ___ = 15

___ − 6 = ___

___ + ___ = 15

___ − 9 = ___

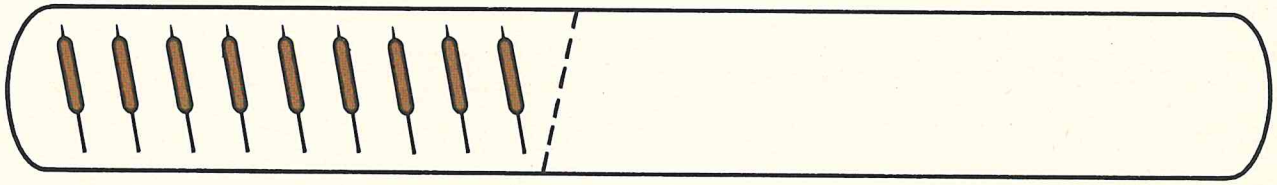


___ + ___ = 15

___ − 7 = ___

___ + ___ = 15

___ − 8 = ___

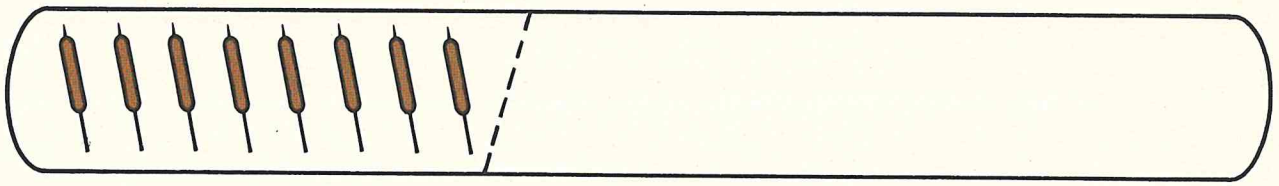


___ + ___ = 16

___ − 7 = ___

___ + ___ = 16

___ − 9 = ___



___ + ___ = 16

___ − 8 = ___

7 + ☐ = 14

7 + ⬡ = 15

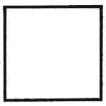
7 + ☐ = 16

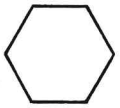
8 + ☐ = 16

8 + ⬡ = 15

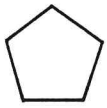
8 + ☐ = 14

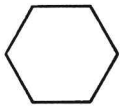
NAME _____

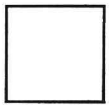
$9 + 7 = 10 + ____$ $9 + 7 =$ 

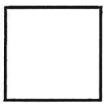
$8 + 7 = 10 + ____$ $8 + 7 =$ 

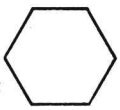
$7 + 6 = 10 + ____$ $7 + 6 =$

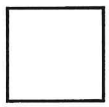
$8 + 8 = 10 + ____$ $8 + 8 =$ 

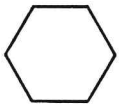
$9 + 5 = 10 + ____$ $9 + 5 =$ 

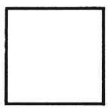
$7 + 8 = 10 + ____$ $7 + 8 =$ 

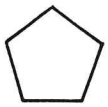
$(6 + 3) + 7 =$ 

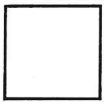
$8 + (6 + 1) =$ 

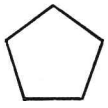
$(5 + 2) + 9 =$ 

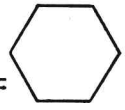
$15 - 8 =$ 

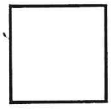
$16 - 9 =$ 

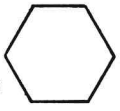
$15 - 9 =$ 

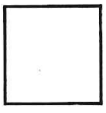
$15 - 6 =$ 

$16 - 8 =$ 

$15 - 7 =$ 

 $- 7 = 7$

$7 + 7 =$ 

$9 + 0 =$ 

NAME _____

One day Sarah and Don saw 15 ducks on the water. Nine of them flew away. How many ducks were on the water then?

___ ___ = ___

Sarah found 8 turtle eggs and Don found 8. How many turtle eggs did the two children find?

___ ___ = ___

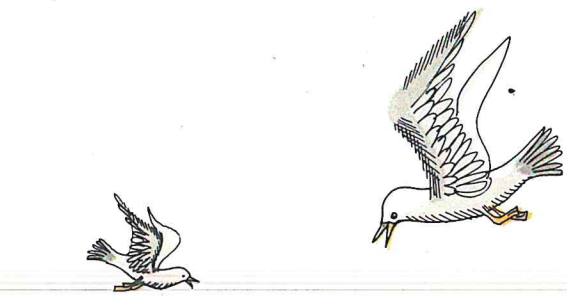
Add or subtract, and write the missing numerals.

13	15	12	11	14	12	15	13	11	14
−4	−7	−8	−9	−7	−4	−9	−7	−6	−9
14	12	17	13	14	9	9	6	8	8
−8	−7	−8	−9	−6	+4	+7	+9	+8	+7
86	70	92	60	81	80	79	70		
+70	+40	+36	+97	+57	+80	+70	+68		
160	138	157	120	159	135	109	146		
−80	−84	−67	−30	−80	−65	−24	−50		

(3 + 3) + 7 = ☐ (2 + 5) + 8 = ☐ 9 + (4 + 1) = ☐

15 − △ = 6 9 + (5 + 2) = ☐ 8 + △ = 14

NAME _____



One day 8 girls and 7 boys went to the seashore. How many children went to the shore that day?

___ ___ = ___

The boys found 15 turtles on the shore. Six of them went into the water. How many turtles were on the shore then?

___ ___ = ___

The girls counted 16 birds on the shore. Then 8 of them flew away. How many birds were left on the shore?

___ ___ = ___

Ann found 7 sea shells, Helen found 2, and Jane found 6. How many shells did the three girls find in all?

___ ___ ___ = ___

Bob found 75 rocks on the seashore. Sam found 70 more. How many rocks did the boys find?

___ ___ = ☐ ___

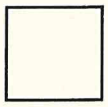
John and Ted found 156 rocks on the shore. They gave 96 of them to the girls. How many rocks did the boys have left?

___ ___ = ☐ ___

NAME _____

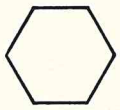
54	=	5 tens, 4 ones	70	124	124
+70	=	7 tens, 0 ones	+54	−70	−54

___ tens, ___ ones

or 

40	=	___ tens, ___ ones	65	105	105
			+40	−65	−40
+65	=	___ tens, ___ ones			

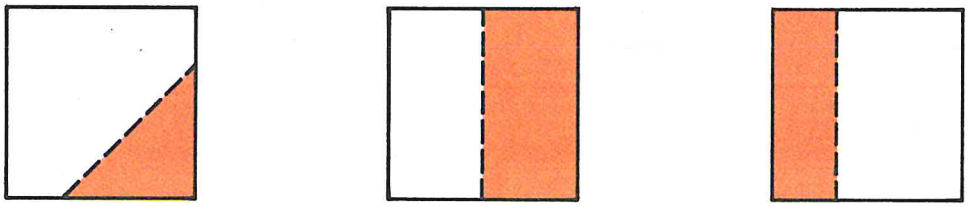
___ tens, ___ ones

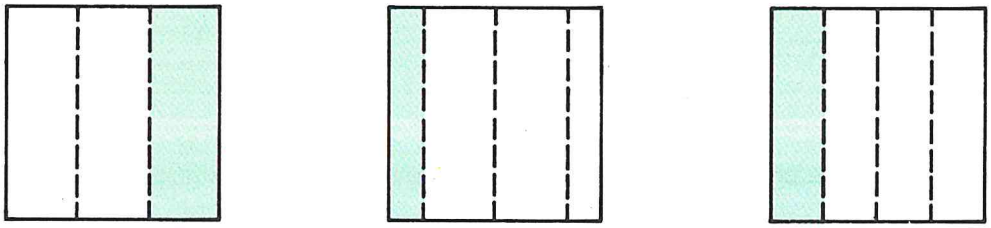
or 

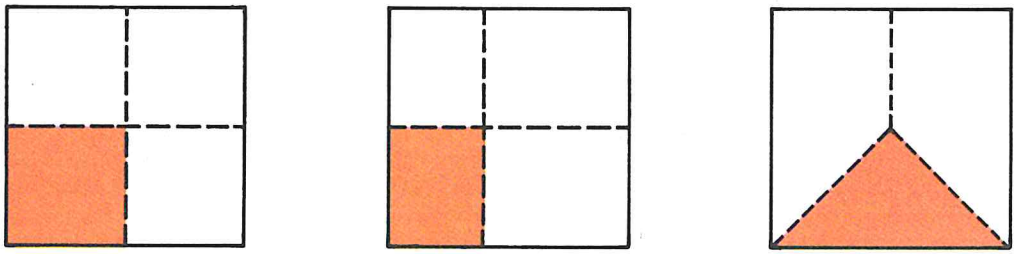
70	43	113	113	56	50	106	106
+43	+70	−43	−70	+50	+56	−50	−56
80	44	124	124	91	60	151	151
+44	+80	−44	−80	+60	+91	−60	−91
70	79	149	149	80	82	162	162
+79	+70	−79	−70	+82	+80	−82	−80
96	43	139	139	58	91	149	149
+43	+96	−43	−96	+91	+58	−91	−58

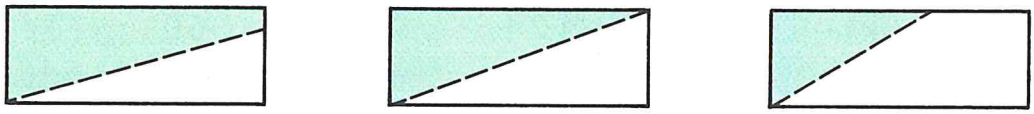
NAME _____

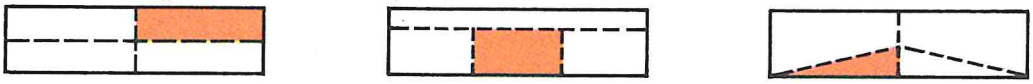
one half	one fourth
$\frac{1}{2}$	$\frac{1}{4}$

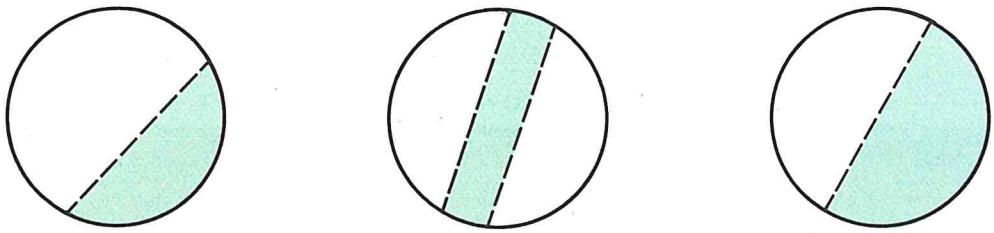
$\frac{1}{2}$ 

$\frac{1}{4}$ 

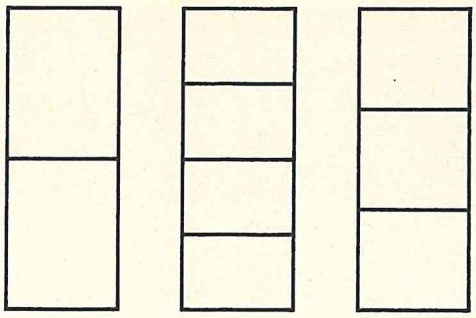
$\frac{1}{4}$ 

$\frac{1}{2}$ 

$\frac{1}{4}$ 

$\frac{1}{2}$ 

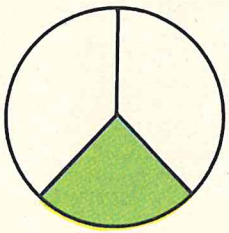
NAME _____



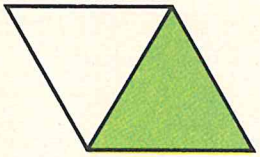
Put a ● on one half of a drawing.
How many halves in the drawing? ____

Put a ✓ on one fourth of a drawing.
How many fourths in the drawing? ____

Put a ✻ on one third of a drawing.
How many thirds in the drawing? ____

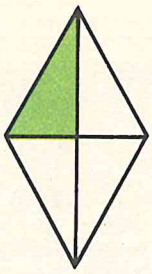


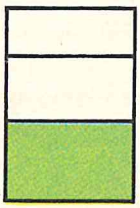
$\frac{1}{3}$



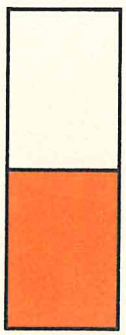
$\frac{1}{2}$

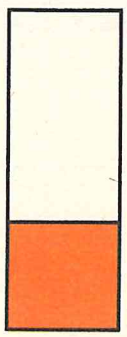
$\frac{1}{4}$

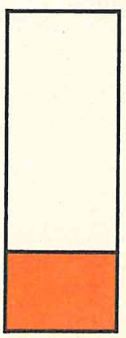




1

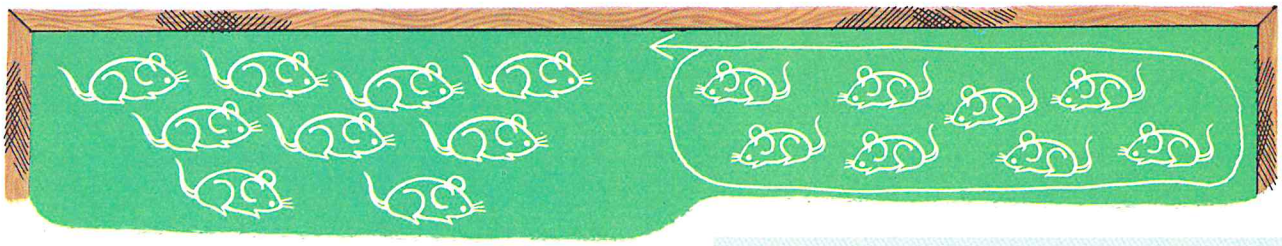






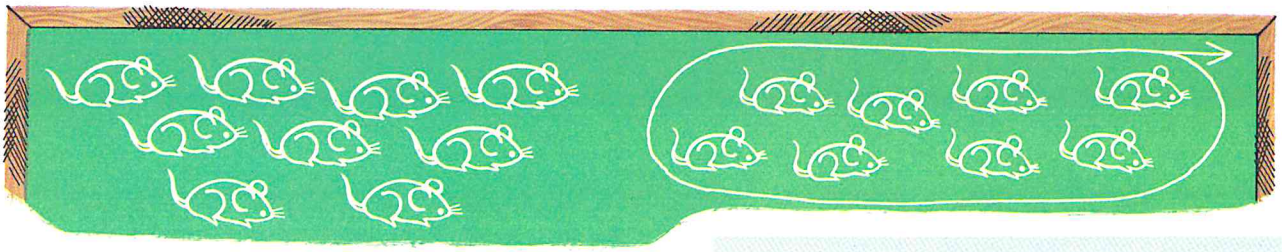
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

NAME _____



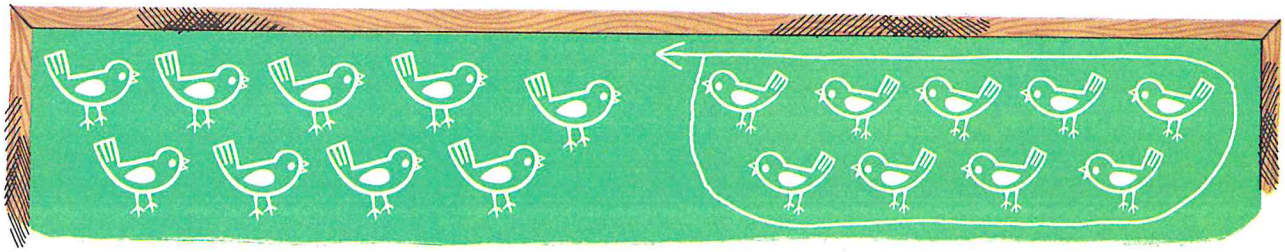
___ + ___ = ___

___ + ___ = ___

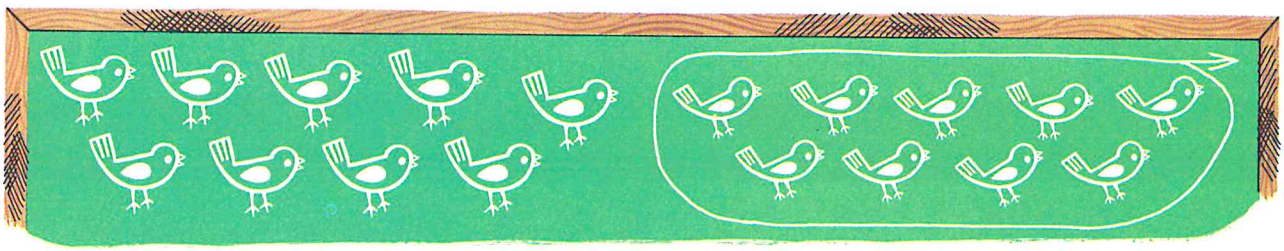


___ − ___ = ___

___ − ___ = ___



___ + ___ = ___



___ − ___ = ___

9	8	17	17	9	18	8	16	8	15
+8	+9	−8	−9	+9	−9	+8	−8	+7	−7

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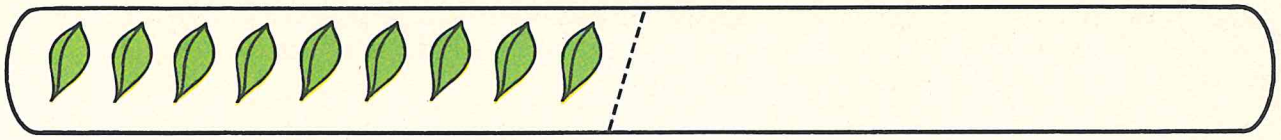
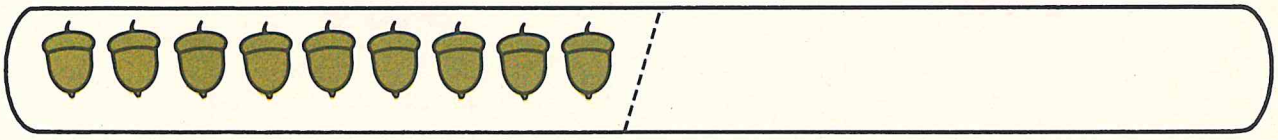


___ + ___ = 17

___ − 8 = ___

___ + ___ = 17

___ − 9 = ___



___ + ___ = 18

___ − 9 = ___

6 + 8 = □

7 + 8 = ⬡

8 + 8 = □

9 + 8 = ⬡

9 + 3 = □

9 + 5 = ⬡

9 + 7 = □

9 + 9 = ⬡

14 − 8 = ⬡

15 − 8 = □

16 − 8 = □

17 − 8 = ⬡

12 − 9 = ⬡

14 − 9 = □

16 − 9 = ⬡

18 − 9 = □

8 + 3 = □

8 + 5 = ⬡

8 + 7 = □

8 + 9 = ⬡

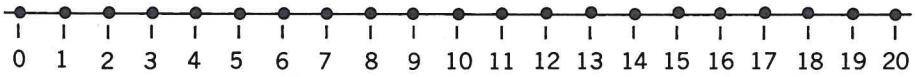
11 − 9 = □

13 − 9 = ⬡

15 − 9 = □

17 − 9 = ⬡

NAME _____



8 + 5 8 + 2 + ___ = ☐	6 + 6 6 + 4 + ___ = ☐
7 + 7 7 + 3 + ___ = ☐	7 + 5 7 + 3 + ___ = ☐
9 + 2 9 + 1 + ___ = ☐	8 + 3 8 + 2 + ___ = ☐
4 + 7 4 + 6 + ___ = ☐	8 + 7 8 + 2 + ___ = ☐
8 + 8 8 + ___ + ___ = ☐	9 + 6 9 + ___ + ___ = ☐
9 + 8 9 + ___ + ___ = ☐	7 + 9 7 + ___ + ___ = ☐
9 + 9 9 + ___ + ___ = ☐	8 + 6 8 + ___ + ___ = ☐
6 + 9 6 + ___ + ___ = ☐	9 + 3 9 + ___ + ___ = ☐

NAME _____

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										

$9 + \square = 12$ $\quad 12 - 9 = \square$

$\bigcirc + 5 = 13$ $\quad 13 - 5 = \bigcirc$

$\triangle + 7 = 15$ $\quad 15 - 7 = \triangle$

$8 + \square = 17$ $\quad 17 - 8 = \square$

$\square + 8 = 16$ $\quad 16 - 8 = \square$

$9 + \triangle = 16$ $\quad 16 - 9 = \triangle$

NAME _____

One day 9 girls and 7 boys went to ride the merry-go-round. How many children went in all?

____ ____ = ____

There were 16 children on the merry-go-round. Eight of them got off. Then how many children were on the merry-go-round?

____ ____ = ____

9 +4	3 +8	8 +9	6 +6	5 +8	8 +7	9 +2	9 +6	5 +6	3 +9
7 +7	9 +9	6 +9	7 +4	8 +6	5 +7	8 +8	7 +6	5 +9	8 +4
3 4 8	1 6 5	3 6 8	8 1 3	2 6 5	4 2 7	2 5 9	2 7 5	1 7 3	1 5 8
25 +81	60 +32	43 +32	31 +74	60 +24	57 +31	13 +80	53 +55		
70 +21	95 +10	43 +53	41 +63	40 +48	87 +20	54 +41	56 +21		
42 +72	60 +50	20 +99	62 +43	46 +90	73 +31	49 +80	12 +94		

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Write the missing numerals.

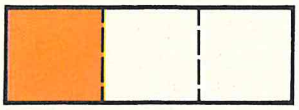
□ + 6 = 14 □ − 8 = 4 2 + 3 + △ = 13

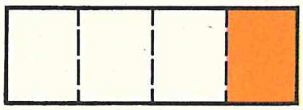
4 + 5 + 7 = □ 17 − △ = 8 15 − 7 = □

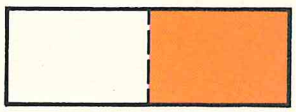
8 + 1 + 6 = □ □ − 5 = 5 6 + □ = 13

7 + □ = 16 8 + 9 = □ 1 + 8 + △ = 14

11	16	15	14	17	14	12	14	11	13
−2	−8	−6	−5	−9	−8	−3	−7	−8	−5
12	14	16	13	11	13	11	12	15	12
−5	−6	−7	−9	−6	−7	−4	−8	−8	−6
98	108	100	98	109	136	142	109		
−26	−35	−60	−61	−53	−85	−90	−80		
187	125	178	107	153	127	106	135		
−93	−42	−88	−44	−91	−70	−90	−64		

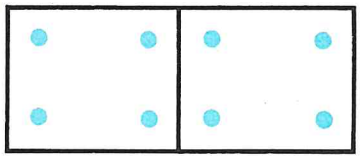




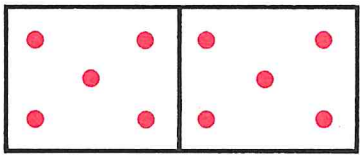


$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

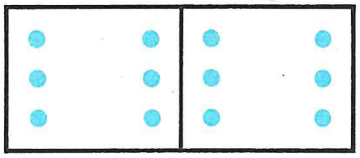
NAME _____



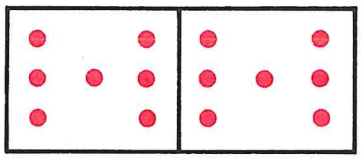
$4 + 4 = \square$



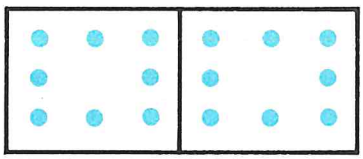
$5 + 5 = \square$



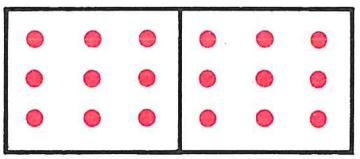
$6 + 6 = \square$



$7 + 7 = \square$



$8 + 8 = \square$



$9 + 9 = \square$

$5 + \square = 10$ $5 + \square = 11$ $5 + \square = 12$

$6 + \square = 12$ $6 + \square = 13$ $6 + \square = 14$

$7 + \square = 14$ $7 + \square = 15$ $7 + \square = 16$

$8 + \square = 16$ $8 + \square = 17$ $8 + \square = 18$

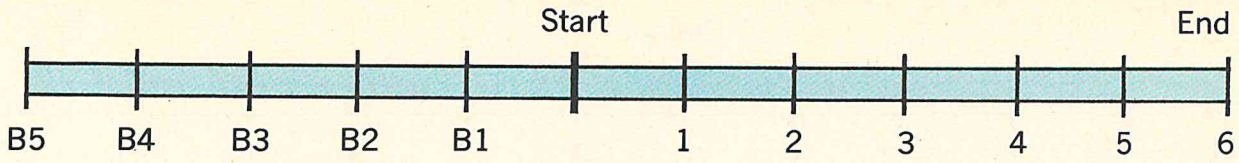
$12 - 6 = \square$ $12 - 7 = \hexagon$ $12 - 8 = \pentagon$

$14 - 7 = \square$ $14 - 8 = \hexagon$ $14 - 9 = \pentagon$

$15 - 8 = \square$ $16 - 8 = \hexagon$ $17 - 8 = \pentagon$

$18 - 9 = \square$ $17 - 9 = \hexagon$ $16 - 9 = \pentagon$

NAME _____



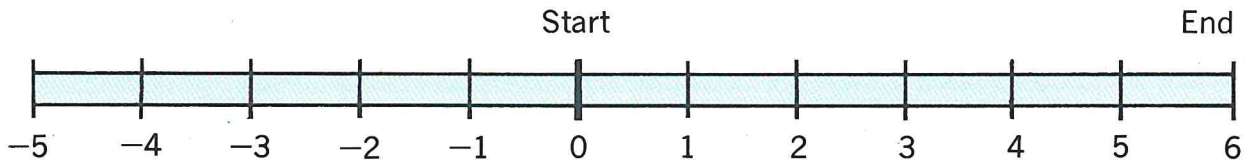
Game 1	Turn 1	Turn 2	Lands at
Bill	AHEAD 2	BACK 3	_____
Peter	AHEAD 2	AHEAD 1	_____
Sally	BACK 2	AHEAD 4	_____
Betsy	BACK 3	AHEAD 3	_____

Game 2	Turn 1	Turn 2	Turn 3	Lands at
Mary	AHEAD 1	AHEAD 1	AHEAD 1	_____
Sue	BACK 1	BACK 1	BACK 1	_____
Kevin	AHEAD 2	AHEAD 2	BACK 1	_____
Joan	AHEAD 2	BACK 2	BACK 2	_____
Steve	BACK 1	AHEAD 3	AHEAD 3	_____

In Game 2, who is closest to winning? _____

Who is furthest behind? _____

NAME _____



	Turn 1	Turn 2	Turn 3	Lands at
Mary	2	2	1	_____
Sue	−2	−2	−1	_____
Kevin	−1	−2	3	_____
Joan	2	−3	−1	_____
Steve	4	−5	2	_____

If Bill is at 3 and Pete is at −1, who is ahead? _____

If Mary is at 1 and Joan is at 0, who is ahead? _____

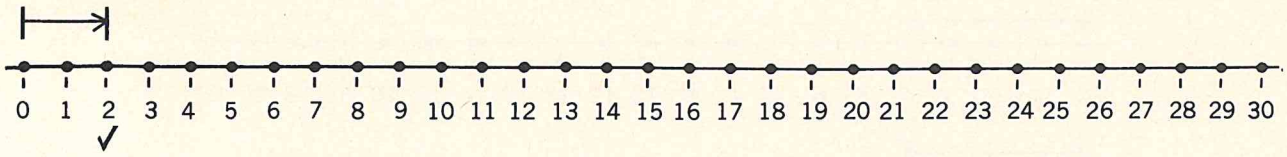
If Carl is at −3 and Betsy is at 1, who is ahead? _____

If Dick is at −2 and Tom is at −1, who is ahead? _____

Betty was at −2 after her first turn.
After her second turn she was at 3.
What number did she pick on her second turn? _____

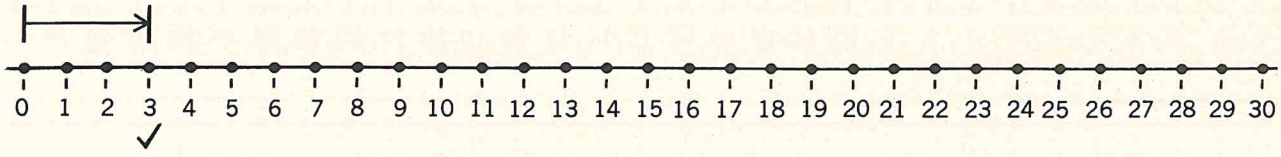
John was at 3 after his first turn.
After his second turn he was at 0.
What number did he pick on his second turn? _____

NAME _____



2, 4, 6, ____, ____, ____, ____, ____, ____, ____

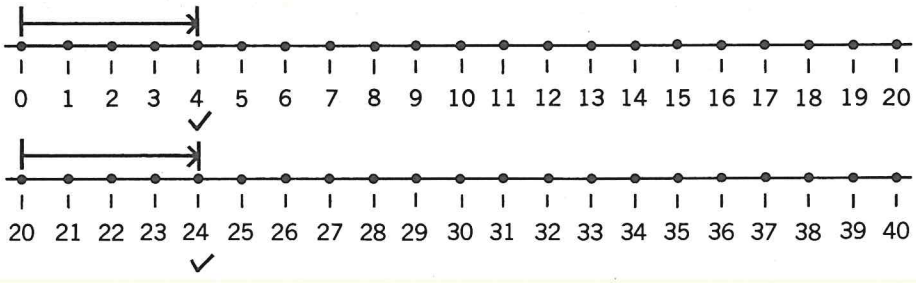
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60



3, 6, 9, ____, ____, ____, ____, ____, ____, ____

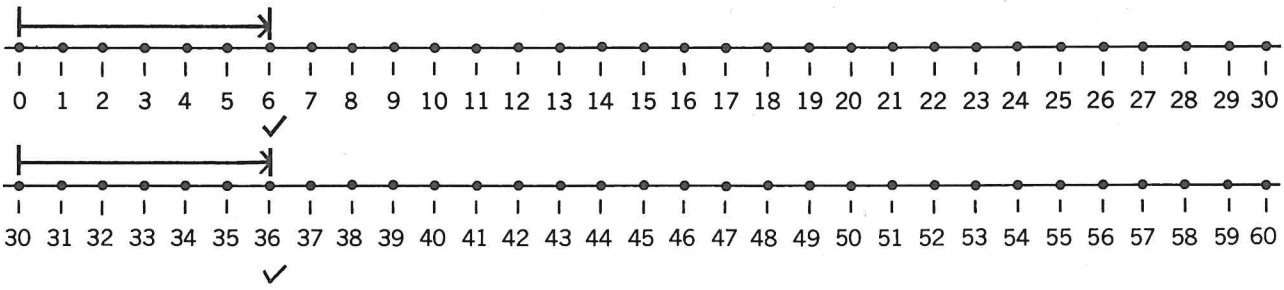
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

NAME _____



4, 8, 12, ____, ____, ____, ____, ____, ____, ____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60



6, 12, 18, ____, ____, ____, ____, ____, ____, ____

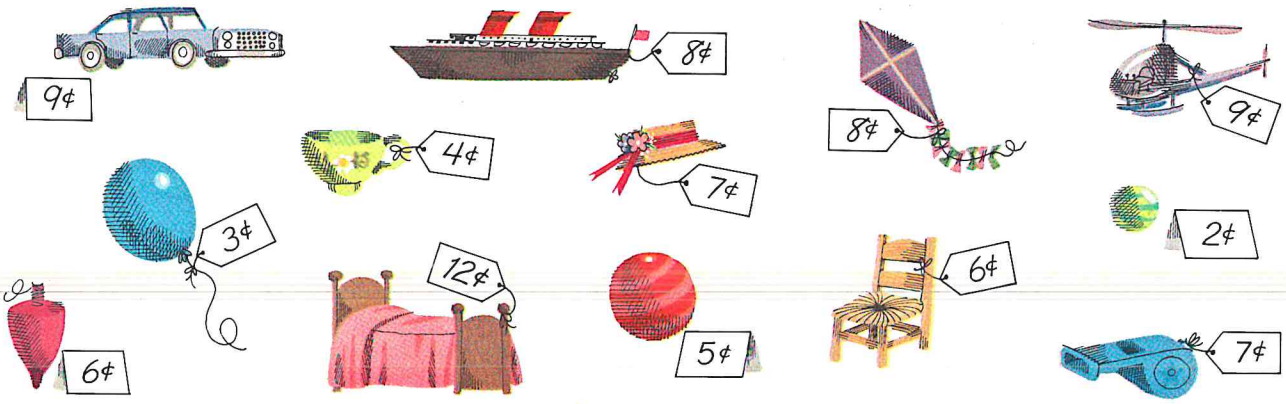
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

NAME _____

$10 + (2 + 5) =$ ☐	$(10 + 2) + 5 =$ ☐	$12 + 5 =$ ☐
$30 + (1 + 4) =$ ☐	$(30 + 1) + 4 =$ ☐	$31 + 4 =$ ☐

$1 + 5 =$ ☐	$11 + 5 =$ △	$21 + 5 =$ ☐
$2 + 7 =$ ☐	$12 + 7 =$ △	$22 + 7 =$ ☐
$4 + 1 =$ ☐	$14 + 1 =$ △	$34 + 1 =$ ☐
$5 + 2 =$ ☐	$15 + 2 =$ △	$45 + 2 =$ ☐
$6 + 3 =$ ☐	$16 + 3 =$ △	$56 + 3 =$ ☐
$4 + 2 =$ ☐	$14 + 2 =$ △	$34 + 2 =$ ☐
$1 + 6 =$ ☐	$11 + 6 =$ △	$21 + 6 =$ ☐
$5 + 3 =$ ☐	$15 + 3 =$ △	$65 + 3 =$ ☐
$3 + 3 =$ ☐	$13 + 3 =$ △	$73 + 3 =$ ☐
$4 + 5 =$ ☐	$14 + 5 =$ △	$54 + 5 =$ ☐
$2 + 6 =$ ☐	$12 + 6 =$ △	$42 + 6 =$ ☐
$4 + 3 =$ ☐	$14 + 3 =$ △	$24 + 3 =$ ☐

NAME _____



Ted had 14¢. He bought a car.
How many cents did Ted have then?

____ ____ = ____

Sarah had 15¢. She bought a chair.
How many cents does she have left?

____ ____ = ____

Mary bought a hat and a cup.
How many cents did she spend?

____ ____ = ____

Susan bought a bed and a hat.
How many cents did she spend?

____ ____ = ____

Sam had 13¢. He bought a top.
How many cents did he have then?

____ ____ = ____

John had 17¢. He bought a kite.
How many cents does he have left?

____ ____ = ____

Fred had 14¢. He bought a ball.
How many cents did he have then?

____ ____ = ____

Ann had 16¢. She bought a whistle.
How many cents does she have left?

____ ____ = ____

Don bought a boat and a balloon.
How many cents did he spend?

____ ____ = ____

Tom bought a top, a marble, and a car. How many cents did he spend?

____ ____ ____ = ____

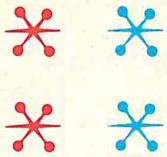
Bob had 18¢. He bought a helicopter. How many cents did he have left?

____ ____ = ____

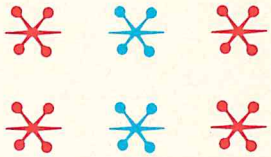
Helen bought a cup, a balloon, and a hat. How many cents did she spend?

____ ____ ____ = ____

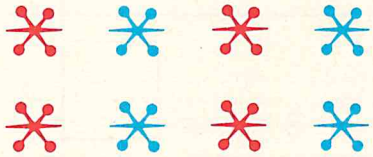
NAME _____



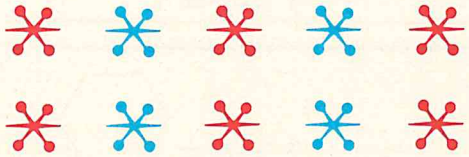
$2 \times 2 =$ ☐



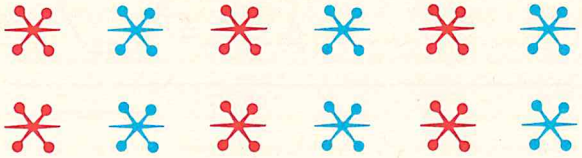
$3 \times 2 =$ ☐



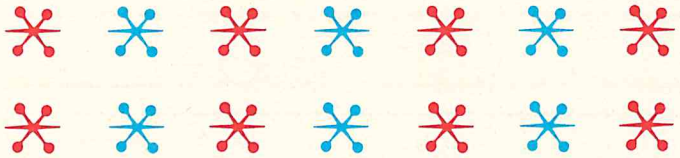
$4 \times 2 =$ ☐



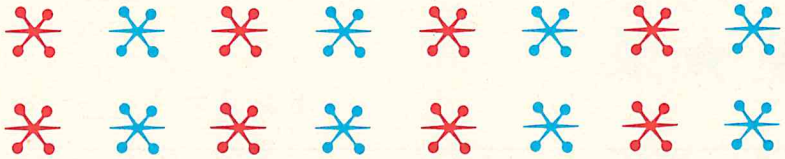
$5 \times 2 =$ ☐



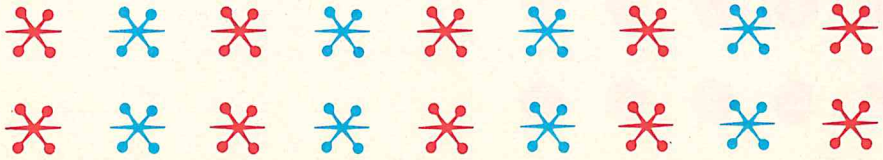
$6 \times 2 =$ ☐



$7 \times 2 =$ ☐

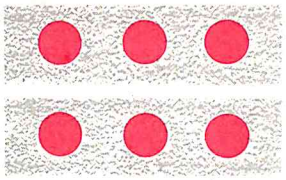


$8 \times 2 =$ ☐

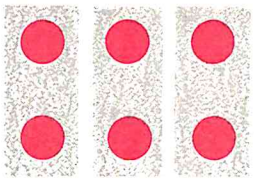


$9 \times 2 =$ ☐

NAME _____



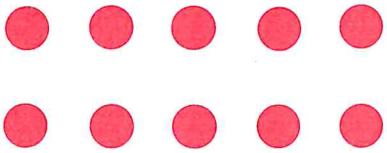
$2 \times 3 =$ ☐



$3 \times 2 =$ ☐

$2 \times 4 =$ △

$4 \times 2 =$ △

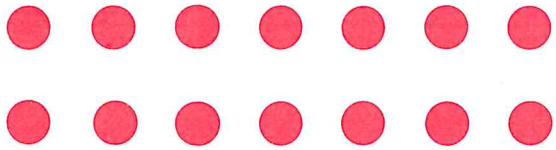


$2 \times 5 =$ ☐

$5 \times 2 =$ ☐

$2 \times 6 =$ ⬡

$6 \times 2 =$ ⬡

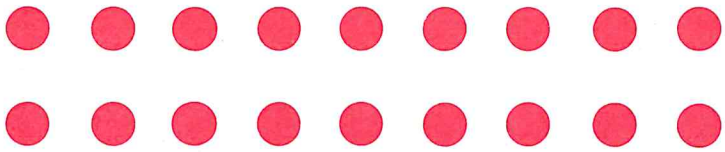


$2 \times 7 =$ ☐

$7 \times 2 =$ ☐

$2 \times 8 =$ ⬡

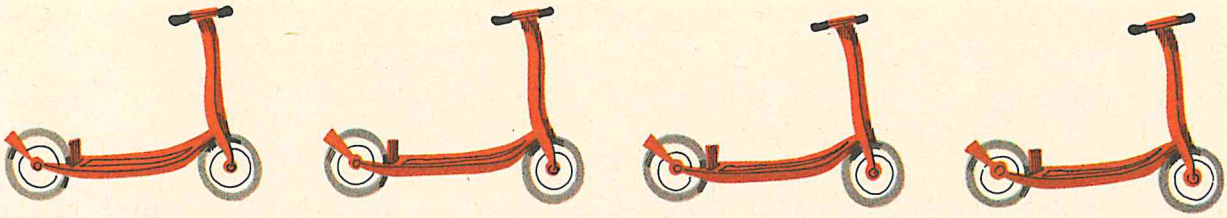
$8 \times 2 =$ ⬡



$2 \times 9 =$ ⬠

$9 \times 2 =$ ⬠

NAME _____



$4 \times 2 = \square$

$2 + 2 + 2 + 2 = \square$

$2 \times 6 = \square$

$6 + 6 = \square$

$5 \times 2 = \square$

$2 + 2 + 2 + 2 + 2 = \square$

$2 \times 7 = \square$

$7 + 7 = \square$

$3 \times 2 = \square$

$2 + 2 + 2 = \square$

$2 \times 8 = \square$

$8 + 8 = \square$

$2 \times 9 = \square$

$9 + 9 = \square$

$6 \times 2 = \square$

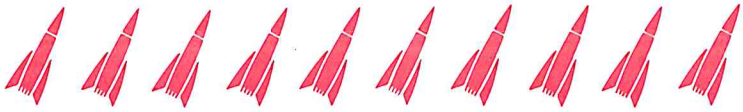
$2 + 2 + 2 + 2 + 2 + 2 = \square$

NAME _____

How many subsets of 2 did you make? _____ How many 2's in 4? _____

How many subsets of 3 did you make? _____ How many 3's in 6? _____

How many subsets of 4 did you make? _____ How many 4's in 8? _____

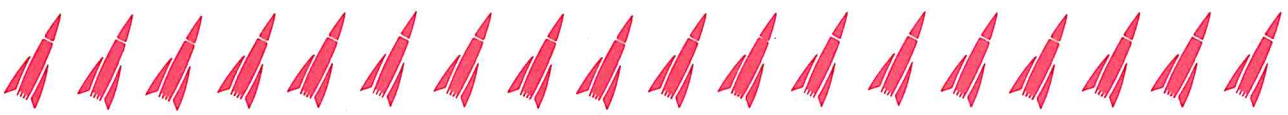


How many subsets of 5 did you make? _____ How many 5's in 10? _____

How many subsets of 6 did you make? _____ How many 6's in 12? _____

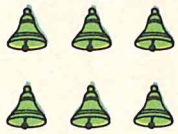
How many subsets of 7 did you make? _____ How many 7's in 14? _____

How many subsets of 8 did you make? _____ How many 8's in 16? _____



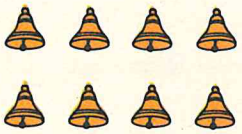
How many subsets of 9 did you make? _____ How many 9's in 18? _____

NAME _____



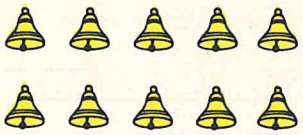
$2 \times 3 =$ ☐ How many 3's in 6? ____

$3 \times 2 =$ ☐ How many 2's in 6? ____



$2 \times 4 =$ ☐ How many 4's in 8? ____

$4 \times 2 =$ ☐ How many 2's in 8? ____

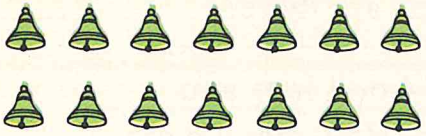


$2 \times 5 =$ ☐ How many 5's in 10? ____

$5 \times 2 =$ ☐ How many 2's in 10? ____

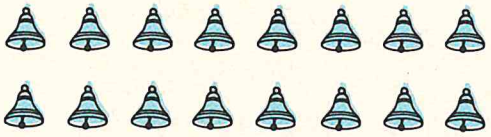
$2 \times 6 =$ ☐ How many 6's in 12? ____

$6 \times 2 =$ ☐ How many 2's in 12? ____



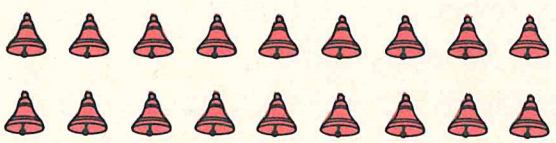
$2 \times 7 =$ ☐ How many 7's in 14? ____

$7 \times 2 =$ ☐ How many 2's in 14? ____



$2 \times 8 =$ ☐ How many 8's in 16? ____

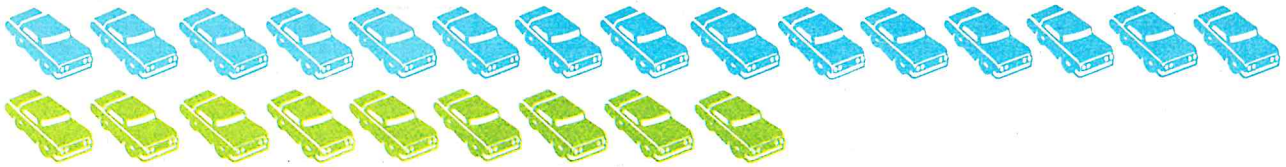
$8 \times 2 =$ ☐ How many 2's in 16? ____



$2 \times 9 =$ ☐ How many 9's in 18? ____

$9 \times 2 =$ ☐ How many 2's in 18? ____

NAME _____



Tom has 15 cars. Bob has 9.
How many more cars does Tom have than Bob?

Draw a line from each of Bob's cars to one of Tom's cars.

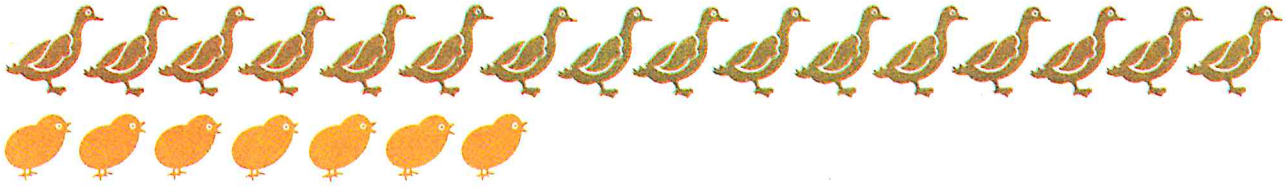
How many cars does Tom have? ____

How many of his cars did you draw lines to? ____

How many more cars does Tom have than Bob? ____

15 − 9 = ____

Look at Tom's and Bob's cars again. How many fewer cars does Bob have? ____



There are 16 ducks and 7 chickens in the pet store. How many fewer chickens than ducks are there?

____ − ____ = ____

How many more ducks than chickens are there? ____

Ted saw 17 turtles and 8 birds in the store. How many fewer birds than turtles did he see?

____ ____ = ____

Ann made 14 doll hats and Jane made 6. How many more hats did Ann make than Jane?

____ ____ = ____

There were 144 round balloons in one box in the toy store and 84 long balloons in another box. How many more round balloons were there? ____

____ ____ = ☐

The man in the toy store sold 115 toys on Friday and 70 on Monday. How many fewer toys did he sell on Monday than on Friday? ____

____ ____ = ☐

NAME _____

The man in the toy store had 16 sailboats and 8 rowboats. How many more sailboats than rowboats did he have?

____ ____ = ____

The man had 18 trucks to sell. He sold 9 of them. How many trucks did he have left?

____ ____ = ____

The girls saw 17 large dolls and 9 small dolls in the store. How many fewer small dolls were there?

____ ____ = ____

Jane found 15 books about the sea and 6 about the circus. How many more books did she find about the sea?

____ ____ = ____

Fred had a box with 168 marbles in it. He gave 98 of them to Sam. How many marbles did Fred keep?

____ ____ = ☐

Bob has 150 pictures of animals. Don has 80 pictures of ball players. How many fewer pictures does Don have?

____ ____ = ☐

One day the boys made 112 points playing ring toss. The girls made 90 points. How many more points did the boys make?

____ ____ = ☐

Another day the girls made 119 points and the boys made 84. How many fewer points did the boys make?

____ ____ = ☐

NAME _____

$12 + \square = 29$ $29 - 12$	$16 + \square = 27$ $27 - 16$
$13 + \square = 28$	$16 + \square = 38$
$22 + \square = 45$	$34 + \square = 56$
$\square + 13 = 29$ $29 - 13$	$\square + 15 = 26$ $26 - 15$
$\square + 25 = 57$	$\square + 41 = 67$
$\square + 68 = 89$	$\square + 74 = 98$

NAME _____

$27 - \square = 15$ $\begin{array}{r} 27 \\ -15 \\ \hline \end{array}$

$68 - \square = 32$ $\begin{array}{r} 68 \\ -32 \\ \hline \end{array}$

$94 - \square = 61$

$87 - \square = 26$

$78 - \square = 45$

$82 - \square = 51$

$\square - 18 = 11$ $\begin{array}{r} 11 \\ +18 \\ \hline \end{array}$

$\square - 22 = 16$ $\begin{array}{r} 16 \\ +22 \\ \hline \end{array}$

$\square - 45 = 34$

$\square - 31 = 68$

$\square - 54 = 23$

$\square - 43 = 42$

NAME _____

$34 - \square = 11$	$15 + \square = 36$
$\square - 21 = 12$	$\square + 12 = 37$
$85 - \square = 32$	$34 + \square = 79$
$\square + 63 = 86$	$\square - 26 = 72$
$\square + 54 = 95$	$\square - 11 = 62$
$78 - \square = 47$	$53 + \square = 75$

NAME _____

Write the missing numerals.

2, 4, 6, ____, ____

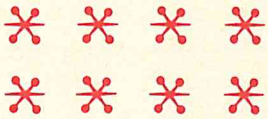
3, 6, 9, ____, ____

5, 10, 15, ____, ____

4, 8, 12, ____, ____

6, 12, 18, ____, ____

22, 24, 26, ____, ____

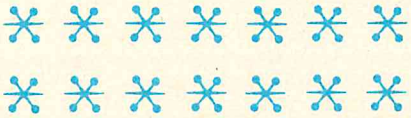


$2 \times 4 =$ ⬡

How many 4's in 8? ____

$4 \times 2 =$ ⬡

How many 2's in 8? ____

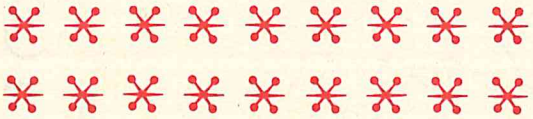


$2 \times 7 =$ ☐

How many 7's in 14? ____

$7 \times 2 =$ ☐

How many 2's in 14? ____



$2 \times 9 =$ ☐

How many 9's in 18? ____

$9 \times 2 =$ ☐

How many 2's in 18? ____

One Saturday 126 boys and 95 girls were in a parade. How many more boys than girls were in the parade? ____

____ ____ = ☐

After the parade 149 children went home in cars and 72 went in a bus. How many fewer children went in the bus? ____

____ ____ = ☐

⬡ + 16 = 38

☐ − 23 = 12

NAME _____

$7 + \square = 9$

$\square + 7 = 9$

$9 - 7 =$ _____

$17 + \hexagon = 39$

$\hexagon + 17 = 39$

$39 - 17 = 32$

$54 + \square = 65$

$37 + \hexagon = 69$

$\square + 32 = 78$

$\hexagon + 41 = 89$

$12 - \square = 5$

$5 + \square = 12$

$12 - 5 =$ _____

$\hexagon - 7 = 5$

$5 + 7 = \hexagon$

$5 + 7 =$ _____

$46 - \square = 32$

$46 - 32 =$ _____

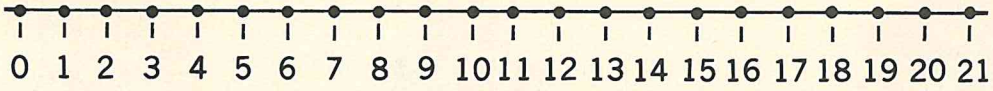
$\hexagon - 14 = 32$

$32 + 14 =$ _____

$78 - \square = 45$

$\hexagon - 33 = 45$

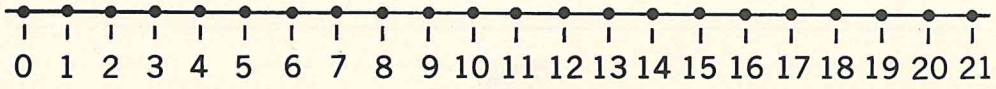
NAME _____



Counting by 2's: ____, ____, ____, ____, ____, ____, ____, ____, ____, ____

Counting by 3's: ____, ____, ____, ____, ____, ____, ____

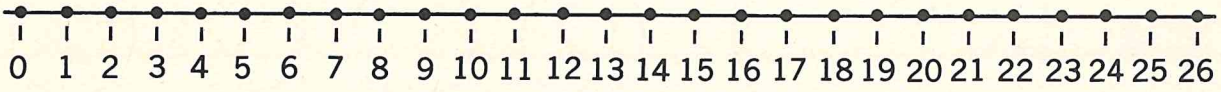
Numbers in both sets: ____, ____, ____



Counting by 2's: ____, ____, ____, ____, ____, ____, ____, ____, ____, ____

Counting by 5's: ____, ____, ____, ____

Numbers in both sets: ____, ____

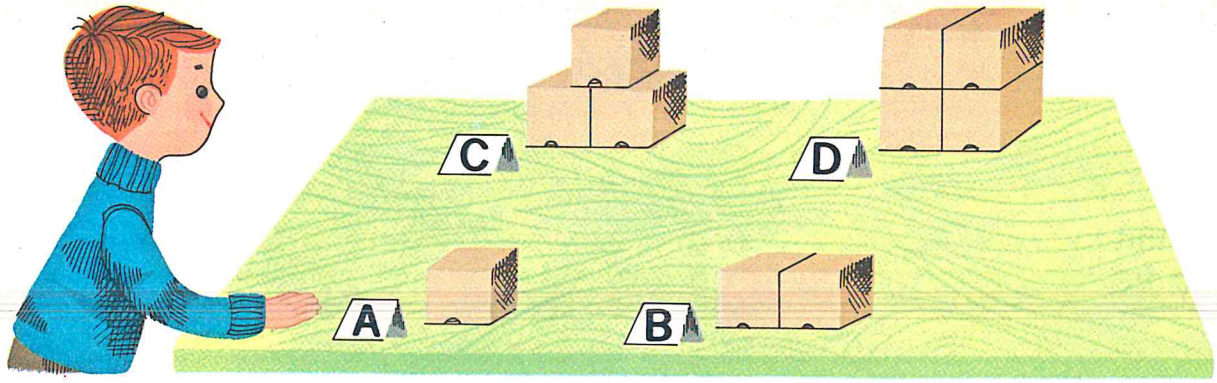


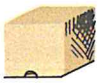
Counting by 3's: ____, ____, ____, ____, ____, ____, ____, ____

Counting by 4's: ____, ____, ____, ____, ____, ____

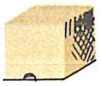
Numbers in both sets: ____, ____

NAME _____



Each box has 2 marbles in it.  (••)

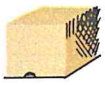
How many marbles are in set B? ____ set C? ____ set D? ____

Each box has 4 marbles in it.  (••••)

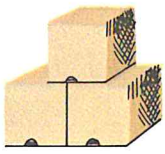
How many marbles are in set B? ____ set C? ____ set D? ____

There are 10 marbles in set B. (••••••••••)

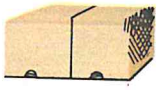
How many marbles are in set A? ____ set C? ____ set D? ____

 (••••••••••••)

A 12 B C D

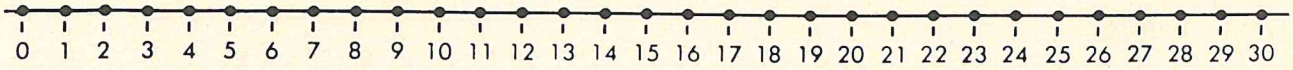
 (•••••••••)

A B C 9 D

 (••••••••••••••••••••••••)

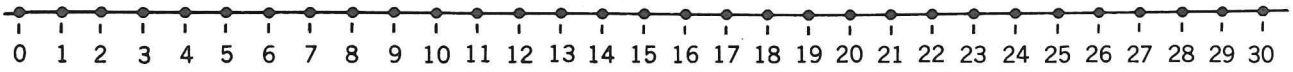
A B 40 C D

NAME _____



Start	Move right	Move right again				Start	Move right	Move right again			
0	12	+	7	=	□	0	6	+	4	=	□
0	22	+	7	=	△	0	16	+	4	=	△
	32	+	7	=	□		26	+	4	=	□
0	7	+	5	=	□	0	8	+	7	=	□
0	17	+	5	=	△	0	18	+	7	=	△
	27	+	5	=	□		28	+	7	=	□
0	5	+	6	=	□	0	9	+	4	=	□
0	15	+	6	=	△	0	19	+	4	=	△
	25	+	6	=	□		29	+	4	=	□
0	13	+	7	=	□	0	15	+	5	=	□
0	23	+	7	=	△	0	25	+	5	=	△
	33	+	7	=	□		35	+	5	=	□

NAME _____



Start	Move right	Move left			Start	Move right	Move left		
0	14	– 3	=	□	0	17	– 5	=	□
0	24	– 3	=	△	0	27	– 5	=	△
	34	– 3	=	□		37	– 5	=	□
0	11	– 1	=	□	0	12	– 4	=	□
0	21	– 1	=	△	0	22	– 4	=	△
	31	– 1	=	□		32	– 4	=	□
0	20	– 5	=	□	0	19	– 9	=	□
0	30	– 5	=	△	0	29	– 9	=	△
	40	– 5	=	□		39	– 9	=	□
0	17	– 8	=	□	0	15	– 7	=	□
0	27	– 8	=	△	0	25	– 7	=	△
	37	– 8	=	□		35	– 7	=	□

NAME _____

10, 12, 14, 16, _____, _____

30, 32, 34, 36, _____, _____

54, 56, 58, 60, _____, _____

74, 76, 78, 80, _____, _____

92, 94, 96, 98, _____, _____

112, 114, 116, 118, _____, _____

3, 6, 9, 12, _____, _____

63, 66, 69, 72, _____, _____

21, 24, 27, 30, _____, _____

51, 54, 57, 60, _____, _____

9, 12, 15, 18, _____, _____

39, 42, 45, 48, _____, _____

8, 12, 16, 20, _____, _____

68, 72, 76, 80, _____, _____

20, 24, 28, 32, _____, _____

40, 44, 48, 52, _____, _____

0, 4, 8, 12, _____, _____

100, 104, 108, 112, _____, _____

5, 10, 15, 20, _____, _____

55, 60, 65, 70, _____, _____

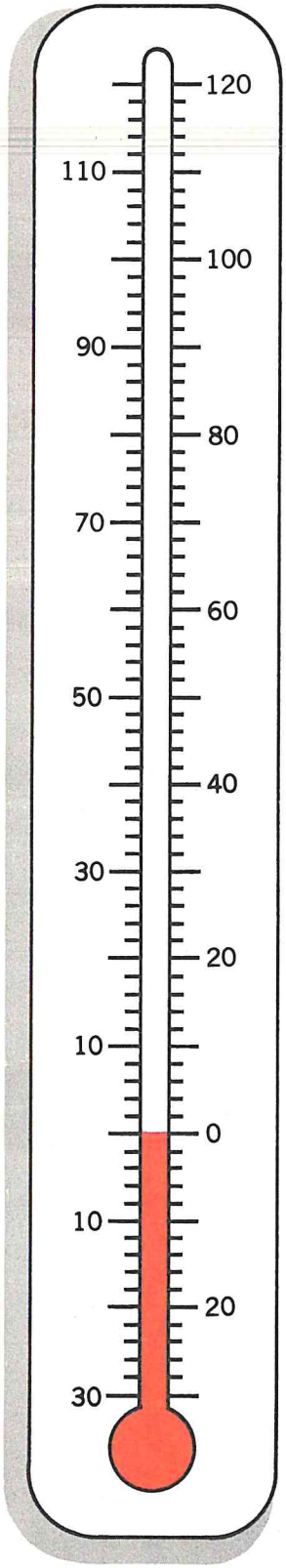
30, 35, 40, 45, _____, _____

80, 85, 90, 95, _____, _____

100, 105, 110, 115, _____, _____

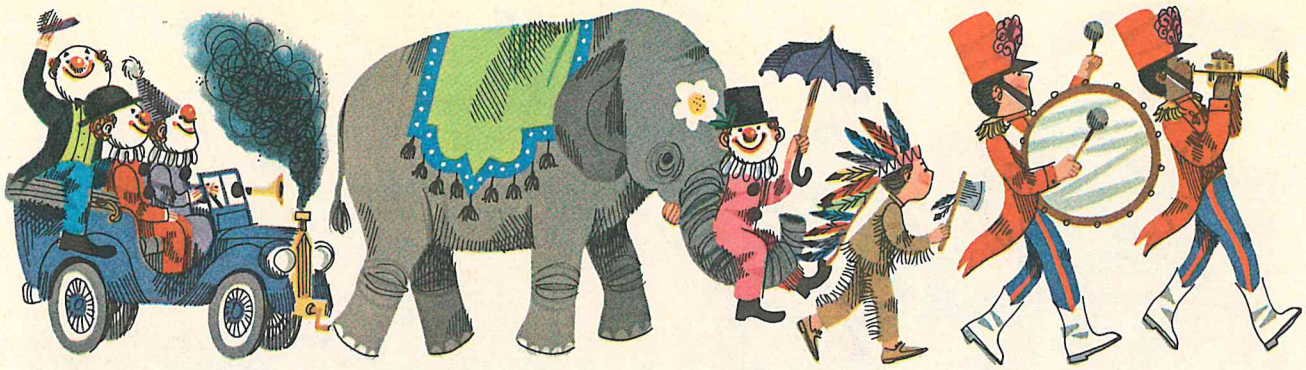
200, 205, 210, 215, _____, _____

NAME _____



Start	Move up	Write the temperature	Start	Move down	Write the temperature
0°	+ 20°	= ____	20°	− 10°	= ____
0°	+ 40°	= ____	40°	− 20°	= ____
0°	+ 70°	= ____	70°	− 30°	= ____
0°	+ 90°	= ____	90°	− 20°	= ____
40°	+ 20°	= ____	60°	− 50°	= ____
60°	+ 30°	= ____	80°	− 60°	= ____
10°	+ 6°	= ____	32°	− 10°	= ____
60°	+ 8°	= ____	56°	− 20°	= ____
0°	+ 12°	= ____	88°	− 30°	= ____
0°	+ 32°	= ____	64°	− 20°	= ____
50°	+ 16°	= ____	98°	− 8°	= ____
70°	+ 24°	= ____	64°	− 4°	= ____
40°	+ 38°	= ____	86°	− 6°	= ____
48°	+ 20°	= ____	74°	− 14°	= ____
62°	+ 30°	= ____	68°	− 28°	= ____
66°	+ 4°	= ____	96°	− 56°	= ____
72°	+ 8°	= ____	32°	− 32°	= ____

NAME _____



One day the children watched a parade. They saw 7 boys and 7 girls dressed like Indians. How many children were dressed like Indians?

___ ___ = ___

They saw 14 boys and 9 girls riding in a farmer's truck in the parade. How many fewer girls than boys were riding in the truck?

___ ___ = ___

In the parade, 3 clowns rode on an elephant, 4 rode in a car, and 5 rode in a truck. How many clowns were in the parade?

___ ___ ___ = ___

The children counted 6 monkeys, 3 elephants, and 9 ponies in the parade. How many animals were in the parade?

___ ___ ___ = ___

There were 56 men in one band and 30 boys in another band. How many more men than boys were in the bands? _____

___ ___ = ☐

One man sold 70 balloons at the parade. Another man sold 89. How many balloons did the two men sell? _____

___ ___ = ☐

A man had 115 whistles that he wanted to sell. He sold only 95 of them. How many whistles did he have then? _____

___ ___ = ☐

Two men sold 159 balloons. Another man sold 95 whistles at the parade. The men sold how many more balloons than whistles? _____

___ ___ = ☐

NAME _____

After the parade, the children went to the park. There were 12 girls in the swings and 8 girls on the see-saws. How many fewer girls were on the see-saws than in the swings?

____ ____ = ____

Some of the children rode in the little train in the park. One time 16 children rode. The next time 7 rode. How many more children rode the first time than the second time?

____ ____ = ____

When Bob rode on the merry-go-round, there were 8 boys and 8 girls riding. How many children were riding on the merry-go-round?

____ ____ = ____

There were 15 boys and 8 girls who had tickets to ride the ponies. How many fewer girls than boys had tickets?

____ ____ = ____

Ted and Don played ring toss. Ted made 4 points, 5 points, and 8 points. How many points did he make in all?

____ ____ ____ = ____

When Don played ring toss, he made 4 points, 3 points, and 9 points. How many points did Don make in all?

____ ____ ____ = ____

Some boys made 130 points when they played ring toss. The girls made 90 points. How many more points did the boys make than the girls?

____ ____ = ☐

The man sold 86 tickets to the boys for rides on the ponies. He sold 40 tickets to the girls. How many tickets did he sell in all?

____ ____ = ☐

NAME _____

Write the missing sign, $<$, $>$, or $=$.

$9+6$		16		$8+6$		$5+8$	
$8+8$		15		14		$7+8$	
$8+9$		17		17		$9+9$	
$7+7$		$8+7$		16		$9+7$	
$9+7$		$7+9$		$6+6$		$8+4$	

1	4	6	2	2	7	8	6	6	3
+9	+7	+8	+9	+8	+7	+4	+6	+4	+8

1	3	5	1	5	8	6	3	1	2
2	6	4	7	3	1	2	5	4	6
7	6	4	9	7	5	2	8	8	6

7	1	6	4	5	3	4	1	3	2
2	8	3	4	2	1	5	6	2	7
3	9	1	3	8	9	7	9	6	8

37	40	63	79	70	54	70	64
+91	+68	+53	+50	+73	+73	+30	+90

53	95	70	82	70	52	60	47
+94	+20	+40	+50	+66	+55	+71	+80

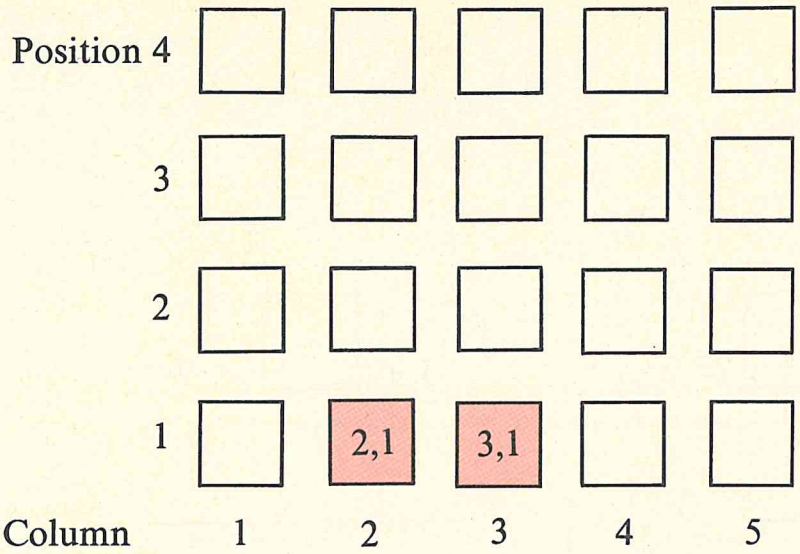
NAME _____

Write the missing sign, $<$, $>$, or $=$.

$14 - 9$ ☐ 5		$13 - 5$ ☐ $12 - 5$	
$15 - 8$ ☐ 6		$14 - 7$ ☐ $15 - 7$	
$17 - 9$ ☐ 9		$12 - 4$ ☐ $14 - 6$	
$16 - 8$ ☐ 7		$12 - 3$ ☐ $5 + 4$	
$15 - 9$ ☐ $14 - 8$		$11 - 3$ ☐ $6 + 2$	

13	16	13	15	11	14	17	14	13	15
−6	−7	−5	−7	−7	−5	−8	−7	−9	−6
118	103	96	112	128	108	138	159		
−96	−20	−62	−52	−31	−70	−44	−89		
159	116	100	99	127	137	186	167		
−97	−44	−30	−41	−60	−85	−96	−82		
128	107	135	89	129	119	126	112		
−47	−53	−70	−58	−52	−35	−71	−20		
160	128	108	176	144	118	147	117		
−90	−83	−42	−93	−80	−63	−94	−81		

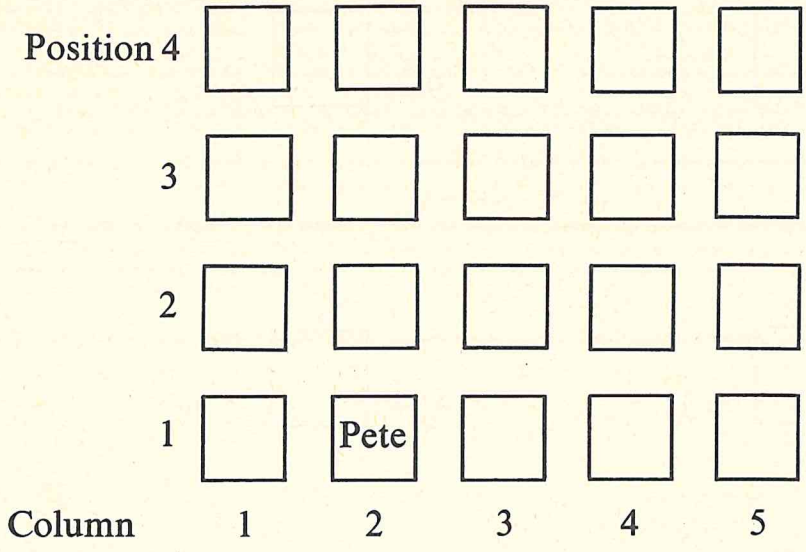
NAME _____



Red: Seats where the *second* number is 1

Blue: Seats where the *second* number is 3

X: Seats where the *first* number is 4



Red: Seats where the numbers add up to 3

Blue: Seats where the numbers add up to 4

X: Seats where the numbers add up to 6

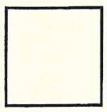
NAME _____

$\{1,\ 2,\ 3,\ 4,\ 5,\ 6,\ 7\}$

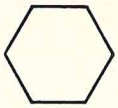
$5 + \square = 9$	$5 + \square < 9$	$5 + \square > 9$
___	___, ___, ___	___, ___, ___
$7 + \square = 12$	$7 + \square < 12$	$7 + \square > 12$
___	___, ___, ___, ___	___, ___
$9 + \square = 12$	$9 + \square < 12$	$9 + \square > 12$
___	___, ___	___, ___, ___, ___
$8 + \square = 11$	$8 + \square < 11$	$8 + \square > 11$
___	___, ___	___, ___, ___, ___
$9 + \square = 15$	$9 + \square < 15$	$9 + \square > 15$
___	___, ___, ___, ___, ___	___

NAME _____

{5, 6, 7, 8, 9, 10, 11, 12, 13, 14}

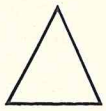
$4 \times 2 =$ 

___

$4 \times 2 <$ 

___, ___, ___,

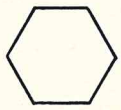
___, ___, ___

$4 \times 2 >$ 

___, ___, ___

$5 \times 2 =$

___

$5 \times 2 <$ 

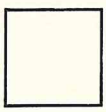
___, ___,

___, ___

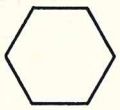
$5 \times 2 >$

___, ___, ___

___, ___

$3 \times 3 =$ 

___

$3 \times 3 <$ 

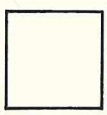
___, ___, ___,

___, ___

$3 \times 3 >$

___, ___

___, ___

$4 \times 3 =$ 

___

$4 \times 3 <$

___, ___

___, ___, ___, ___,

___, ___, ___

NAME _____

Write the missing sign, +, −, or ×.

5 ◇ 3 = 15	5 ◇ 3 = 8	5 ◇ 3 = 2
7 ◇ 2 = 5	7 ◇ 2 = 9	7 ◇ 2 = 14
9 ◇ 2 = 7	9 ◇ 2 = 18	9 ◇ 2 = 7
3 ◇ 3 = 0	3 ◇ 3 = 6	3 ◇ 3 = 9
2 ◇ 2 = 4	2 ◇ 2 = 0	2 ◇ 2 = 4
2 ◇ 8 = 10	3 ◇ 8 = 11	9 ◇ 4 = 13
9 ◇ 9 = 18	8 ◇ 8 = 0	9 ◇ 8 = 1
7 ◇ 6 = 13	7 ◇ 5 = 2	3 ◇ 5 = 15
6 ◇ 9 = 15	9 ◇ 7 = 2	6 ◇ 6 = 0
4 ◇ 4 = 16	4 ◇ 5 = 9	5 ◇ 4 = 1

NAME _____

2, 4, 6, _____, 10	302, 304, 306, _____, 310
52, 54, _____, _____, 60	552, 554, _____, _____, 560
_____, 72, 74, 76, _____	_____, 972, 974, 976, _____
1, 3, 5, _____, 9	901, 903, 905, _____, 909
99, 101, 103, _____, 107	799, 801, 803, _____, 807
15, 17, _____, _____, 23, 25	515, 517, _____, _____, 523, 525
915, 925, 935, 945, _____, 965	222, 232, 242, _____, _____, 272
672, _____, _____, 702, 712, 722	509, 519, _____, _____, 549, 559
399, _____, 419, _____, 439, 449	788, 798, _____, 818, _____, 838
16, 116, 216, _____, 416, 516	198, 298, 398, _____, 598, 698
_____, _____, 225, 325, 425, _____	_____, _____, 360, 460, 560, _____
404, 504, _____, _____, 804, 904	_____, _____, 533, 633, 733, 833

NAME _____

$(10 + 10) + 3 =$ □	$10 + (10 + 3) =$ □	$10 + 13 =$ □
$10 + (8 + 5) =$ □	$(10 + 8) + 5 =$ □	$18 + 5 =$ □

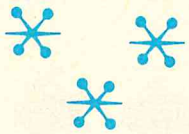
$10 + (9 + 1) =$ □	$(10 + 9) + 1 =$ □	$19 + 1 =$ □
$10 + (7 + 3) =$ △	$(10 + 7) + 3 =$ △	$17 + 3 =$ △
$10 + (6 + 5) =$ □	$(10 + 6) + 5 =$ □	$16 + 5 =$ □
$10 + (7 + 5) =$ △	$(10 + 7) + 5 =$ △	$17 + 5 =$ △
$20 + (7 + 5) =$ □	$(20 + 7) + 5 =$ □	$27 + 5 =$ □
$10 + (7 + 6) =$ △	$(10 + 7) + 6 =$ △	$17 + 6 =$ △

$5 + 9 =$ □	$15 + 9 =$ △	$25 + 9 =$ □
$7 + 8 =$ □	$17 + 8 =$ △	$27 + 8 =$ □
$9 + 9 =$ □	$19 + 9 =$ △	$29 + 9 =$ □
$8 + 5 =$ □	$18 + 5 =$ △	$28 + 5 =$ □
$6 + 9 =$ □	$16 + 9 =$ △	$26 + 9 =$ □

NAME _____

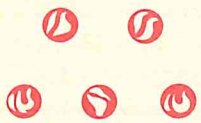
1 for 2¢

Number of cents	2	4	6	8	10	12
Number of balloons						



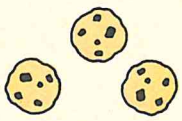
3 for 1¢

Number of cents	1	2	3	4	5	6
Number of jacks						



5 for 2¢

Number of cents	2	4	6	8	10
Number of marbles					



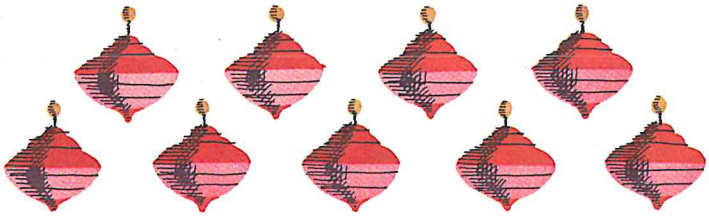
3 for 10¢

Number of cents					
Number of cookies	9	12	15	18	21

NAME _____

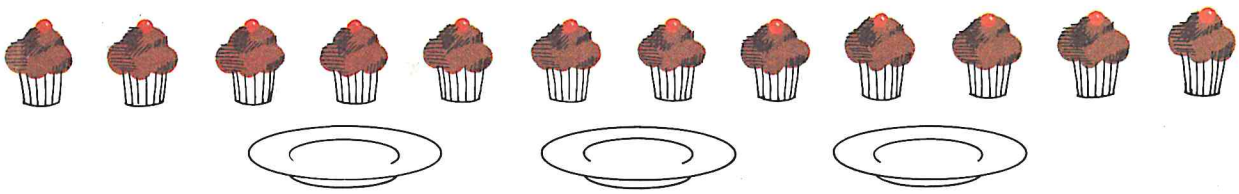
How many dolls can each of 3 girls have? ____

What is $\frac{1}{3}$ of 6? ____



How many tops can each of 3 boys have? ____

What is $\frac{1}{3}$ of 9? ____



How many cupcakes can each of 3 girls have? ____

What is $\frac{1}{3}$ of 12? ____

How many marbles can each of 2 boys have? ____

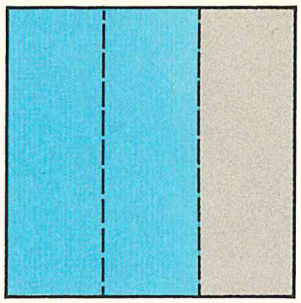
What is $\frac{1}{2}$ of 12? ____

How many cards can each of 4 girls have? ____

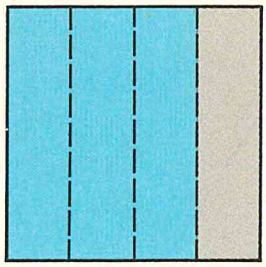
What is $\frac{1}{4}$ of 12? ____

What is $\frac{1}{4}$ of 8? ____

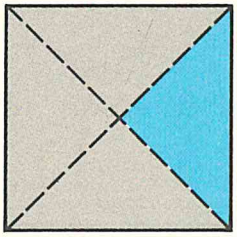
NAME _____



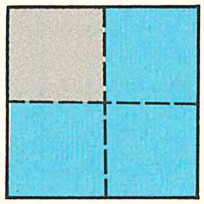
$\frac{1}{2}$ $\frac{2}{3}$ $\frac{2}{4}$ $\frac{3}{4}$



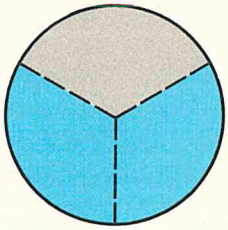
$\frac{1}{2}$ $\frac{2}{3}$ $\frac{2}{4}$ $\frac{3}{4}$



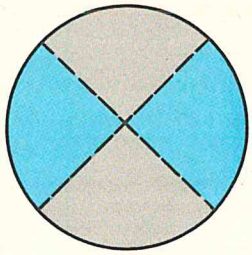
$\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$



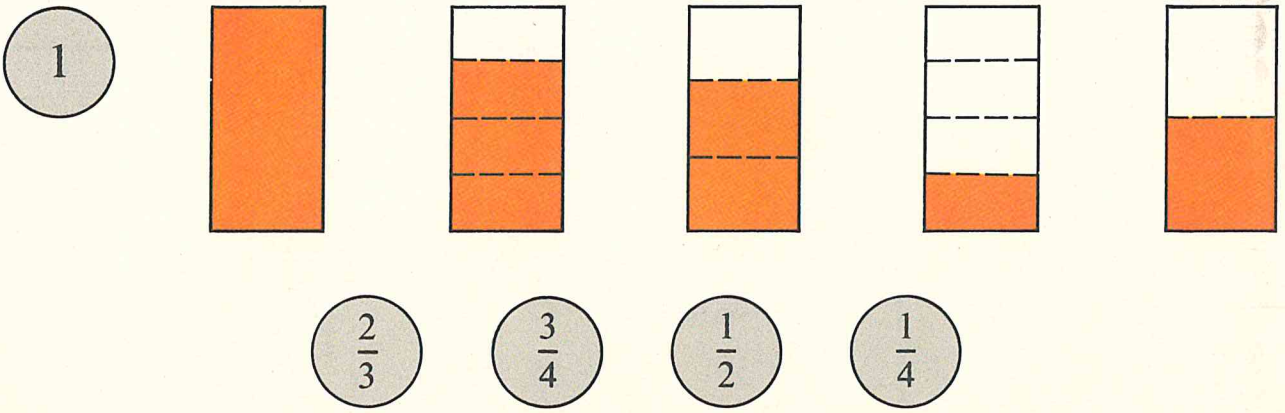
$\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$



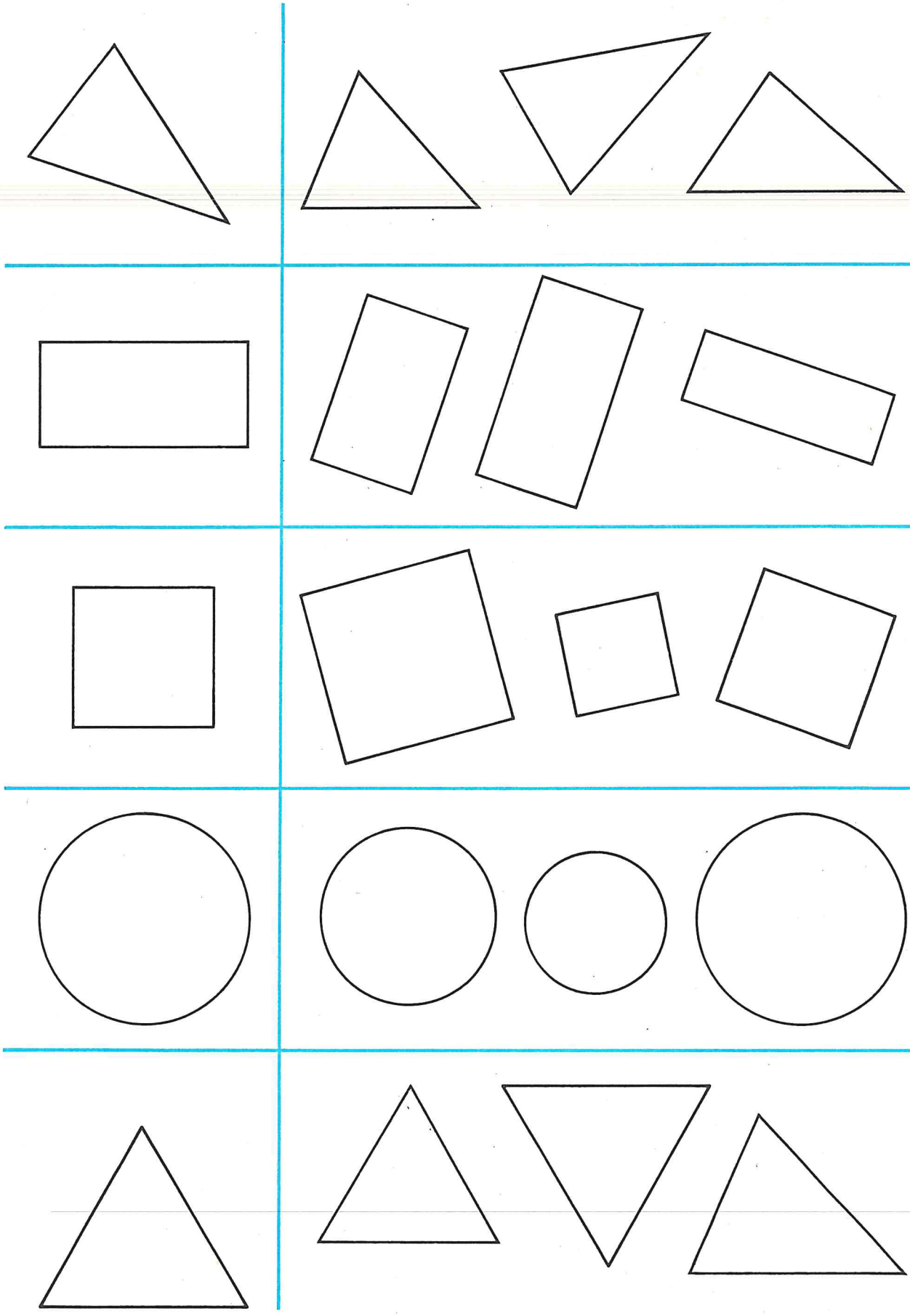
$\frac{1}{4}$ $\frac{2}{4}$ $\frac{2}{3}$ $\frac{3}{4}$



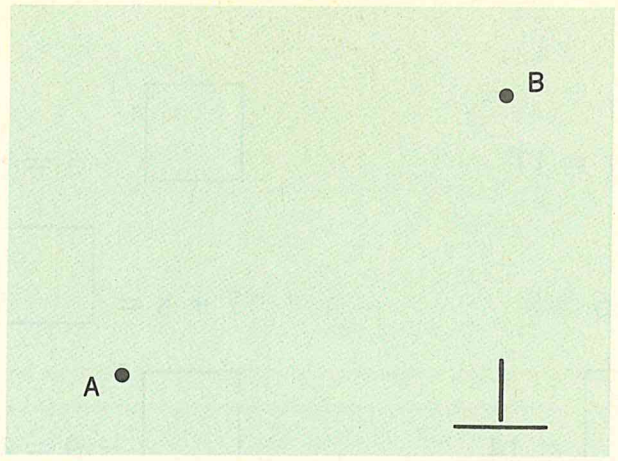
$\frac{1}{4}$ $\frac{2}{4}$ $\frac{2}{3}$ $\frac{3}{4}$

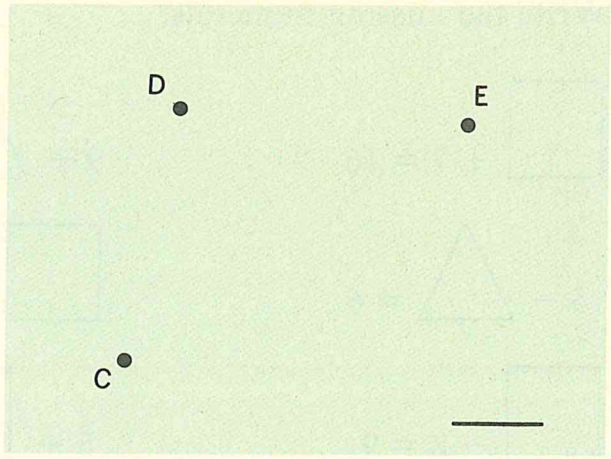


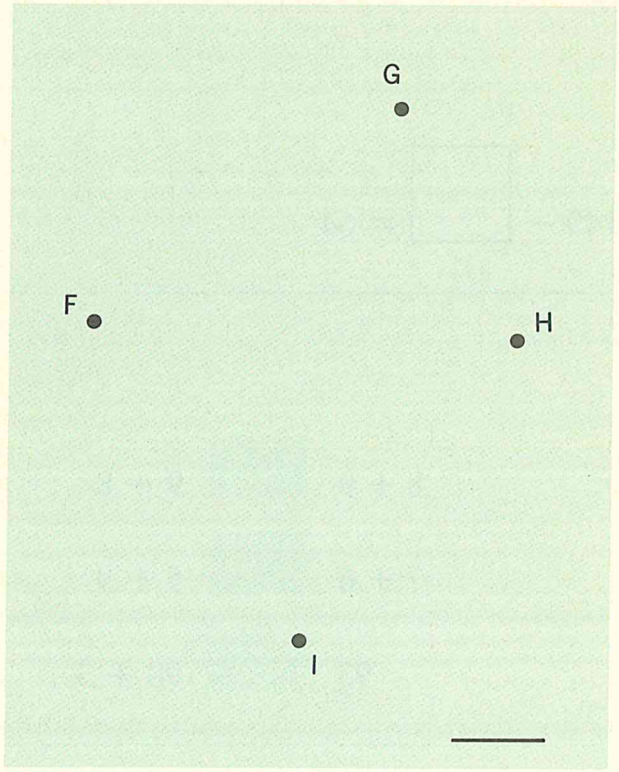
NAME _____

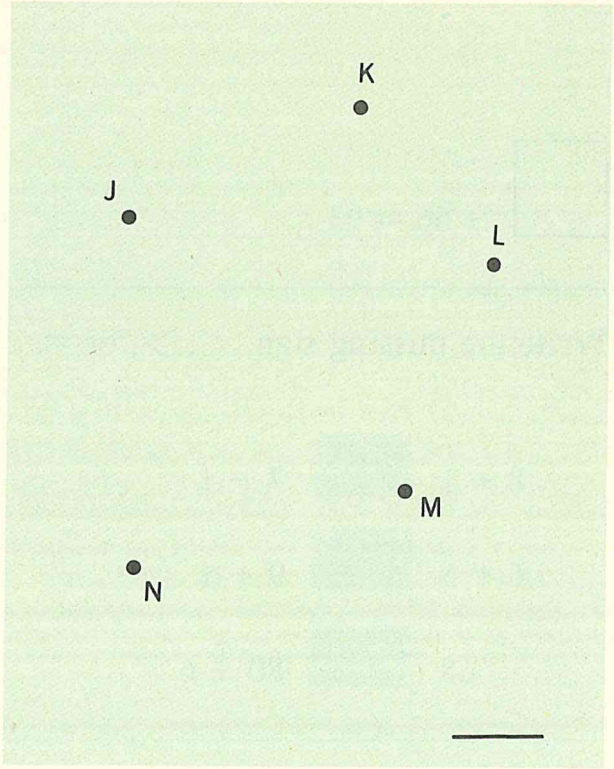


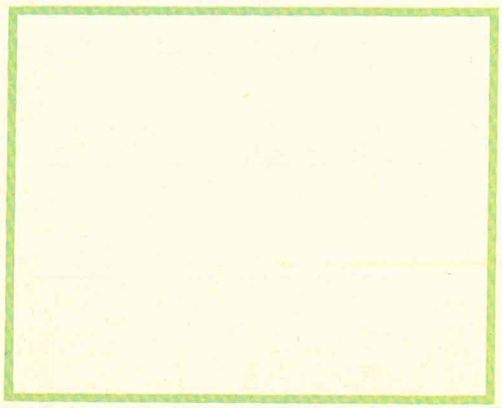
NAME _____

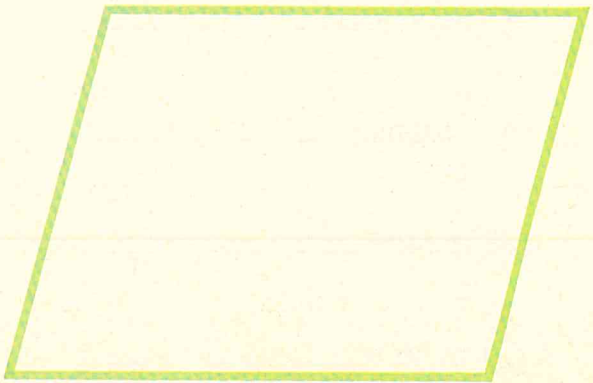






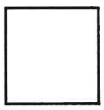




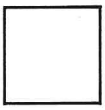


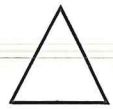
NAME _____

Write the missing numerals.

 + 7 = 16

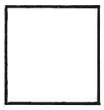
9 + = 17

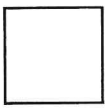
 − 5 = 8

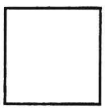
15 −  = 6

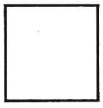
− 6 = 8

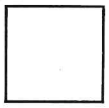
7 + 8 =

 − 8 = 9

5 +  = 14

 − 9 = 4

 − 66 = 93

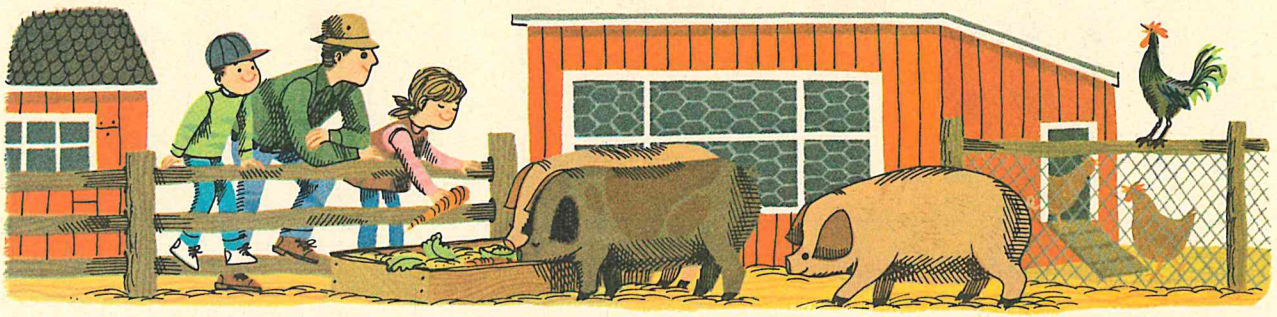
149 −  = 64

Write the missing sign, <, >, or =.

8 − 1		7 − 1		8 + 9		9 + 8
6 + 5		9 + 1		7 + 6		5 + 9
68		80 + 6		93		90 + 3

	hundreds	tens	ones		tens	ones
137 means	1	3	7	137 means	13	7
190 means	___	___	___	190 means	___	___
108 means	___	___	___	108 means	___	___
275 means	___	___	___	275 means	___	___

NAME _____



One day Susan and Bob went to the farm. They found 158 eggs in the chicken house. The farmer sold 72 of them. How many eggs were left?

015
158
72
6

158 − 72 = 186

The day Susan and Bob were at the farm, 96 eggs hatched. The next day 72 more eggs hatched. How many eggs hatched in the two days?

___ ___ = ☐

Susan and Bob helped feed the pigs. There were 68 pigs in one pen and 90 in another pen. How many pigs did the farmer have?

___ ___ = ☐

A man had 180 pigs to sell. The farmer bought 90 of them. How many pigs did the man have left to sell?

___ ___ = ☐

There were 17 cows in the barnyard. The farmer drove 8 of them into the barn. Then how many cows were in the barnyard?

___ ___ = ___

Susan and Bob counted 15 lambs and 6 sheep on the farm. How many fewer sheep than lambs were there?

___ ___ = ___

Bob saw 4 ducks in the barnyard, 5 in the water, and 6 in the yard. How many ducks did Bob see?

___ ___ ___ = ___

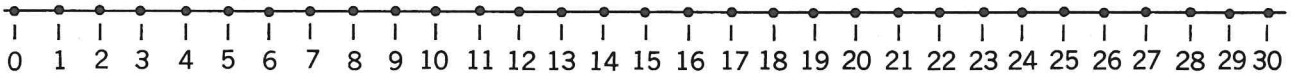
Susan saw 5 kittens in the barn, 3 in the house, and 8 in the chicken house. How many kittens did Susan see?

___ ___ ___ = ___

NAME _____

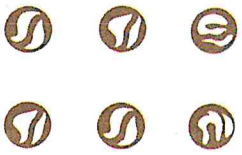
$3 \times ____ = \square$ $5 \times ____ = \square$

How many 5's in 15? _____ How many 3's in 15? _____



$3 \times 6 = \square$ $8 \times 2 = \bigcirc$ $4 \times 3 = \square$

$2 \times 5 = \bigcirc$ $3 \times 4 = \bigcirc$ $9 \times 2 = \bigcirc$



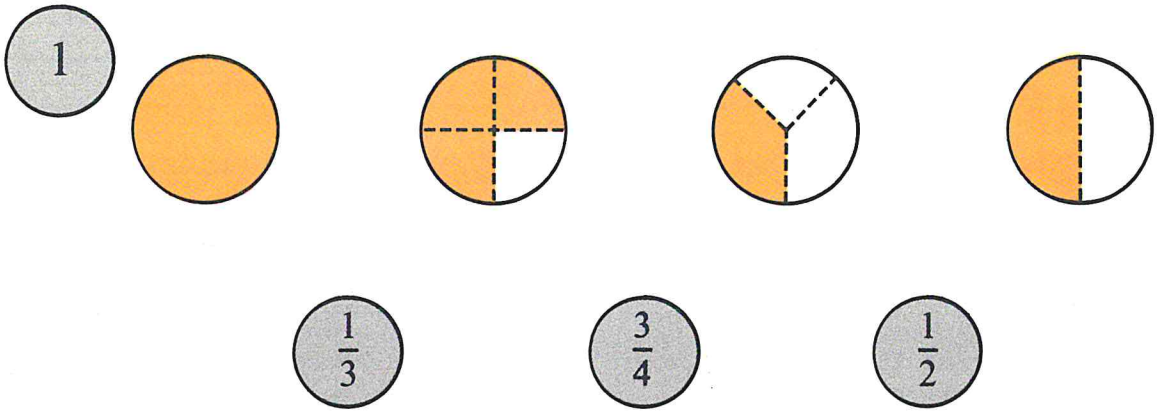
What is $\frac{1}{2}$ of 6? _____

What is $\frac{1}{3}$ of 6? _____

What is $\frac{1}{2}$ of 12? _____

What is $\frac{1}{3}$ of 12? _____

What is $\frac{1}{4}$ of 12? _____



NAME _____

4	7	4	9	3	8	9	7
+7	+7	+9	+5	+9	+9	+6	+9

6	5	3	5	5	5	1	2
1	2	4	4	1	3	8	3
6	5	8	1	8	5	8	7

6	4	7	4	4	3	7	8
3	4	1	2	1	6	2	1
3	6	7	6	8	9	4	7

84	40	72	80	53	32	60	51
+40	+39	+35	+20	+52	+80	+90	+97

14	12	14	12	14	12	15	16
−7	−9	−8	−7	−9	−5	−9	−7

12	15	16	15	18	15	16	17
−3	−6	−9	−8	−9	−7	−8	−9

13	14	13	14	17	13	11	12
−8	−5	−7	−6	−8	−4	−9	−6

95	128	119	109	117	170	123	108
−60	−80	−32	−66	−97	−90	−43	−18

NAME _____

$8 + 4 =$ ☐	$7 + 5 =$ ⬡	$8 + 7 =$ ⬠
$8 + 5 =$ ☐	$7 + 6 =$ ⬡	$8 + 8 =$ ⬠
$8 + 6 =$ ☐	$7 + 7 =$ ⬡	$8 + 9 =$ ⬠
$9 + 7 =$ ☐	$5 + 5 =$ ⬡	$6 + 6 =$ ⬠
$9 + 8 =$ ☐	$5 + 6 =$ ⬡	$6 + 7 =$ ⬠
$9 + 9 =$ ☐	$5 + 7 =$ ⬡	$6 + 8 =$ ⬠
$18 - 9 =$ ☐	$17 - 8 =$ ⬡	$14 - 7 =$ ⬠
$17 - 9 =$ ☐	$16 - 8 =$ ⬡	$15 - 7 =$ ⬠
$16 - 9 =$ ☐	$15 - 8 =$ ⬡	$16 - 7 =$ ⬠
$14 - 8 =$ ☐	$11 - 7 =$ ⬡	$13 - 9 =$ ⬠
$13 - 8 =$ ☐	$12 - 7 =$ ⬡	$14 - 9 =$ ⬠
$12 - 8 =$ ☐	$13 - 7 =$ ⬡	$15 - 9 =$ ⬠

NAME _____

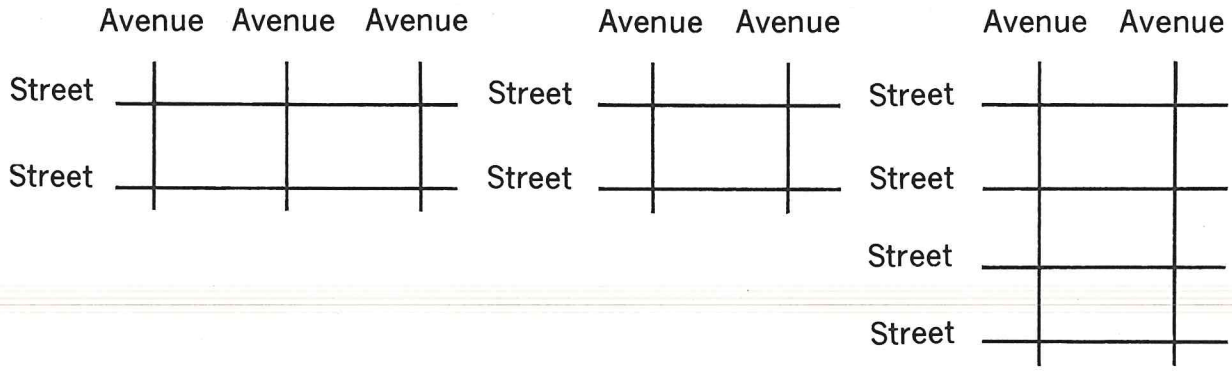
	Quarters	Nickels	Pennies
17¢			

	Quarters	Nickels	Pennies
31¢			
53¢			

Least Number of Coins

	Quarters	Nickels	Pennies
21¢			
33¢			
6¢			
47¢			
19¢			
75¢			

NAME _____



_____ Streets _____ Streets _____ Streets

_____ Avenues _____ Avenues _____ Avenues

_____ Intersections _____ Intersections _____ Intersections

Street _____

Street _____

Street _____

Street _____

Street _____

Street _____

Street _____

Street _____

Street _____

4 Streets 2 Streets 3 Streets

3 Avenues 5 Avenues 3 Avenues

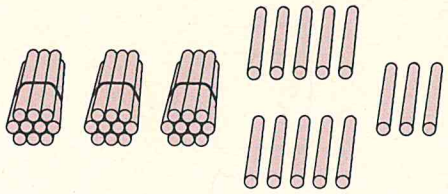
_____ Intersections _____ Intersections _____ Intersections

$2 \times 3 =$ ☐ $2 \times 2 =$ ⬡ $4 \times 2 =$ ⬠

$4 \times 3 =$ ☐ $3 \times 3 =$ ⬡ $2 \times 5 =$ ⬠

Suppose there are 4 streets and 5 avenues.
How many intersections are there? _____ _____ = _____

NAME _____



_____ tens, _____ ones

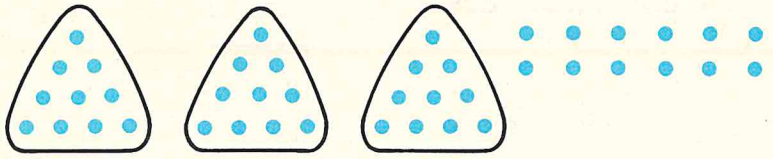
or

_____ tens, _____ ones

_____ tens, _____ ones

or

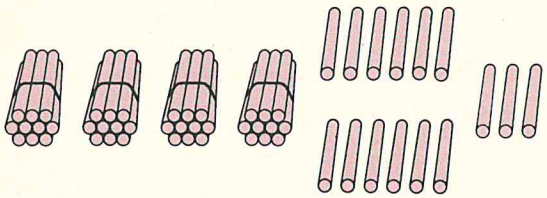
_____ tens, _____ ones



_____ tens, _____ ones

or

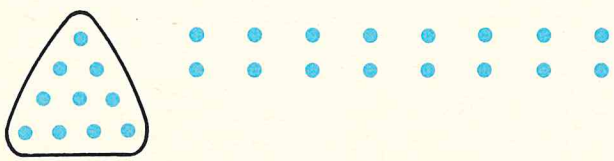
_____ tens, _____ ones



_____ tens, _____ ones

or

_____ tens, _____ ones



_____ tens, _____ ones

or

_____ tens, _____ ones

NAME _____

4 tens, 12 ones = ____ tens, 2 ones ☐

4 tens, 10 ones = 5 tens, ____ ones ☐

3 tens, 15 ones = ____ tens, 5 ones ☐

3 tens, 19 ones = 4 tens, ____ ones ☐

2 tens, 10 ones = 3 tens, ____ ones ☐

2 tens, 16 ones = ____ tens, 6 ones ☐

1 ten, 13 ones = 2 tens, ____ ones ☐

1 ten, 18 ones = ____ tens, 8 ones ☐

3 tens, 16 ones = ____ tens, 6 ones ☐

5 tens, 10 ones = 6 tens, ____ ones ☐

4 tens, 15 ones = ____ tens, 5 ones ☐

3 tens, 11 ones = 4 tens, ____ one ☐

7 tens, 10 ones = 8 tens, ____ ones ☐

8 tens, 17 ones = ____ tens, 7 ones ☐

NAME _____

$40 + 12 = ____ + 2$ ☐

$30 + 16 = ____ + 6$ ☐

$60 + 15 = ____ + 5$ ☐

$20 + 14 = ____ + 4$ ☐

$70 + 13 = ____ + 3$ ☐

$50 + 11 = ____ + 1$ ☐

$80 + 17 = ____ + 7$ ☐

$30 + 19 = ____ + 9$ ☐

$20 + 18 = ____ + 8$ ☐

$40 + 13 = ____ + 3$ ☐

$50 + 12 = ____ + 2$ ☐

$120 + 15 = ____ + 5$ ☐

$130 + 12 = ____ + 2$ ☐

$20 + 15 = 30 + ____$ ☐

$20 + 11 = 30 + ____$ ☐

$20 + 10 = 30 + ____$ ☐

$40 + 19 = 50 + ____$ ☐

$40 + 17 = 50 + ____$ ☐

$40 + 12 = 50 + ____$ ☐

$30 + 18 = 40 + ____$ ☐

$30 + 14 = 40 + ____$ ☐

$30 + 10 = 40 + ____$ ☐

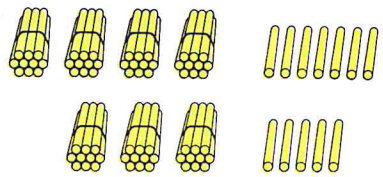
$70 + 14 = 80 + ____$ ☐

$70 + 18 = 80 + ____$ ☐

$150 + 14 = 160 + ____$ ☐

$170 + 16 = 180 + ____$ ☐

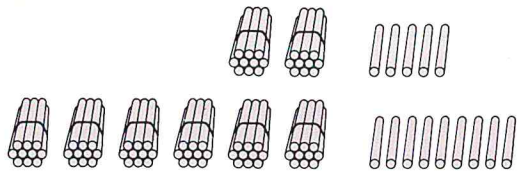
NAME _____



47 = 4 tens, 7 ones

+ 35 = 3 tens, 5 ones

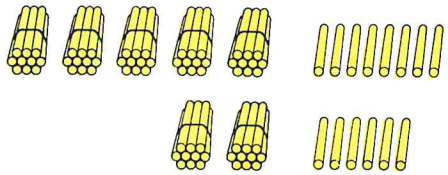
___ tens, ___ ones, or ☐



25 = 2 tens, 5 ones

+ 69 = 6 tens, 9 ones

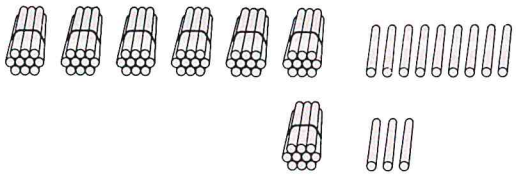
___ tens, ___ ones, or ☐



58 = 5 tens, 8 ones

+ 26 = 2 tens, 6 ones

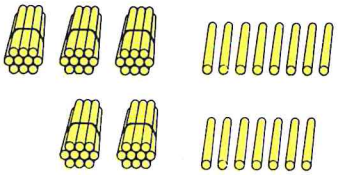
___ tens, ___ ones, or ☐



69 = 6 tens, 9 ones

+ 13 = 1 ten, 3 ones

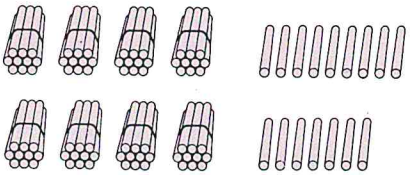
___ tens, ___ ones, or ☐



38 = 3 tens, 8 ones

+ 27 = 2 tens, 7 ones

___ tens, ___ ones, or ☐

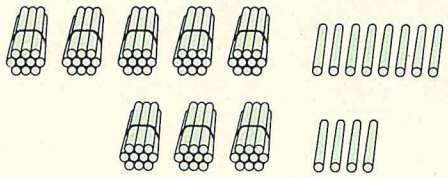


49 = 4 tens, 9 ones

+ 47 = 4 tens, 7 ones

___ tens, ___ ones, or ☐

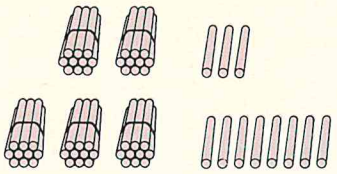
NAME _____



58 = 5 tens, 8 ones

+ 34 = 3 tens, 4 ones

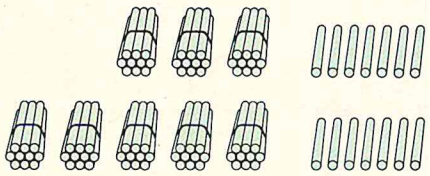
___ tens, ___ ones, or ☐



23 = 2 tens, 3 ones

+ 38 = 3 tens, 8 ones

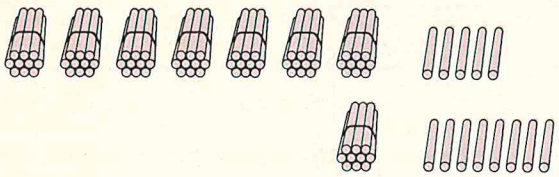
___ tens, ___ ones, or ☐



37 = 3 tens, 7 ones

+ 57 = 5 tens, 7 ones

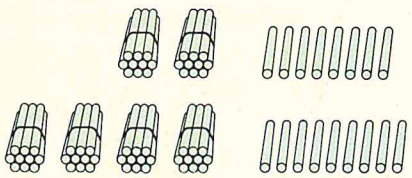
___ tens, ___ ones, or ☐



75 = 7 tens, 5 ones

+ 18 = 1 ten, 8 ones

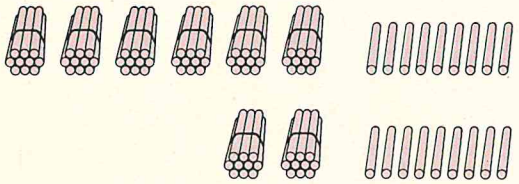
___ tens, ___ ones, or ☐



28 = 2 tens, 8 ones

+ 49 = 4 tens, 9 ones

___ tens, ___ ones, or ☐



69 = 6 tens, 9 ones

+ 29 = 2 tens, 9 ones

___ tens, ___ ones, or ☐

NAME _____

$6 + 7 =$ ☐

$50 + 20 =$ ⬡

$56 + 27 + 13 + 70$

$8 + 6 =$ ☐

$40 + 30 =$ ⬡

$48 + 36 + 14 + 70$

$8 + 3 =$ ☐

$70 + 10 =$ ⬡

$78 + 13$

$6 + 9 =$ ☐

$40 + 20 =$ ⬡

$46 + 29$

$9 + 8 =$ ☐

$20 + 20 =$ ⬡

$29 + 28$

$5 + 7 =$ ☐

$50 + 30 =$ ⬡

$55 + 37$

$4 + 9 =$ ☐

$30 + 30 =$ ⬡

$34 + 39$

$7 + 8 =$ ☐

$50 + 20 =$ ⬡

$57 + 28$

NAME _____

$9 + 5 =$ ☐

$20 + 40 =$ ⬡

$$\begin{array}{r} 29 \\ +\,45 \\ \hline \end{array}$$

$8 + 8 =$ ☐

$60 + 10 =$ ⬡

$$\begin{array}{r} 68 \\ +\,18 \\ \hline \end{array}$$

$3 + 9 =$ ☐

$20 + 60 =$ ⬡

$$\begin{array}{r} 23 \\ +\,69 \\ \hline \end{array}$$

$6 + 6 =$ ☐

$40 + 40 =$ ⬡

$$\begin{array}{r} 46 \\ +\,46 \\ \hline \end{array}$$

$2 + 9 =$ ☐

$30 + 40 =$ ⬡

$$\begin{array}{r} 32 \\ +\,49 \\ \hline \end{array}$$

$7 + 4 =$ ☐

$20 + 50 =$ ⬡

$$\begin{array}{r} 27 \\ +\,54 \\ \hline \end{array}$$

$4 + 7 =$ ☐

$90 + 80 =$ ⬡

$$\begin{array}{r} 94 \\ +\,87 \\ \hline \end{array}$$

$5 + 6 =$ ☐

$90 + 40 =$ ⬡

$$\begin{array}{r} 95 \\ +\,46 \\ \hline \end{array}$$

OPTIONAL

NAME _____

29	59	49	69	38	35	59	27
+23	+12	+38	+14	+57	+29	+25	+46

57	45	28	48	78	52	37	29
+37	+47	+35	+23	+14	+19	+48	+49

43	26	69	37	57	46	63	37
+19	+59	+27	+44	+29	+48	+18	+35

75	59	36	68	34	36	28	34
+16	+36	+35	+29	+57	+16	+68	+28

NAME _____

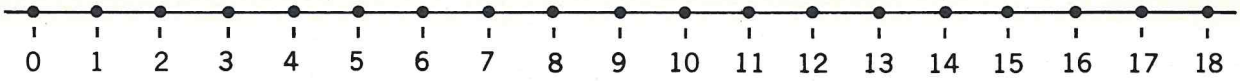
39	64	85	47	39	28	29	46
+32	+28	+19	+26	+54	+57	+78	+16

78	34	26	35	45	52	43	38
+18	+49	+28	+67	+48	+28	+59	+26

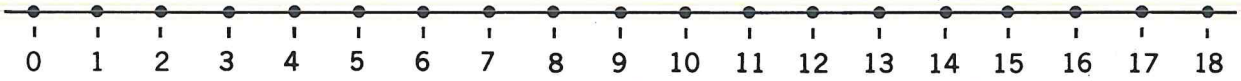
75	69	58	59	56	29	64	46
+26	+19	+44	+17	+39	+36	+37	+35

68	98	82	67	79	73	59	97
+75	+58	+39	+94	+58	+78	+86	+39

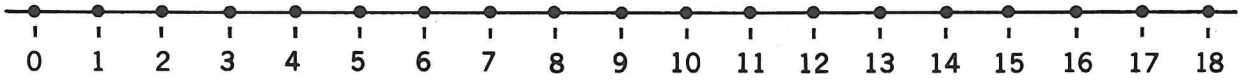
NAME _____



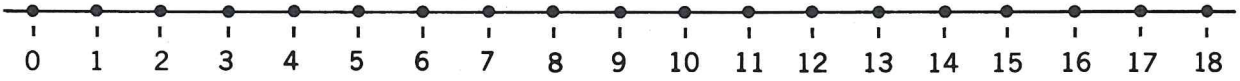
□ × 2 = 14



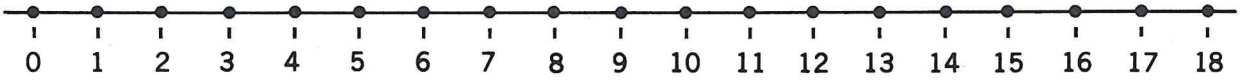
⬡ × 3 = 12



⬠ × 5 = 15



□ × 2 = 18



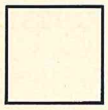
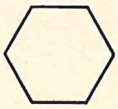
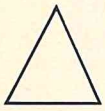
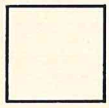
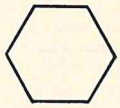
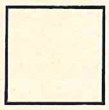
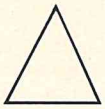
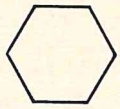
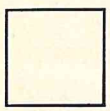
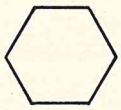
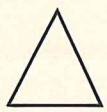
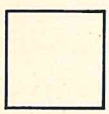
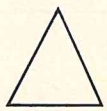
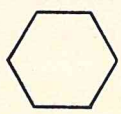
□ × 3 = 9 ⬠ × 2 = 10 □ × 4 = 8

⬡ × 6 = 18 □ × 9 = 18 ⬠ × 3 = 18

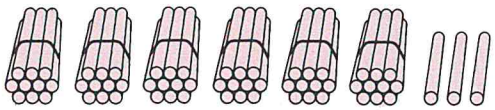
□ × 2 = 12 ⬡ × 3 = 15 □ × 7 = 14

NAME _____

{2, 3, 4, 5, 6}

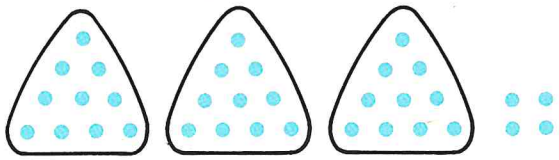
 $\times 2 = 8$	$\times 2 < 8$	 $\times 2 > 8$
___	___, ___	___, ___
 $\times 5 = 15$	 $\times 5 < 15$	 $\times 5 > 15$
___	___	___, ___, ___
 $\times 2 = 10$	 $\times 2 < 10$	 $\times 2 > 10$
___	___, ___, ___	___
 $\times 3 = 9$	 $\times 3 < 9$	 $\times 3 > 9$
___	___	___, ___, ___
 $\times 4 = 16$	 $\times 4 < 16$	 $\times 4 > 16$
___	___, ___	___, ___

NAME _____



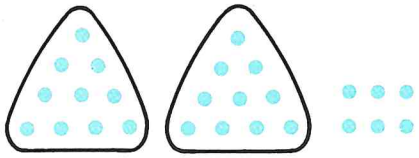
63 = ____ tens, 3 ones

= 5 tens, ____ ones



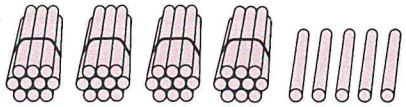
34 = ____ tens, 4 ones

= 2 tens, ____ ones



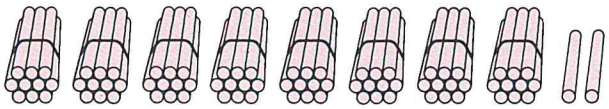
26 = ____ tens, 6 ones

= 1 ten, ____ ones



45 = ____ tens, 5 ones

= 3 tens, ____ ones

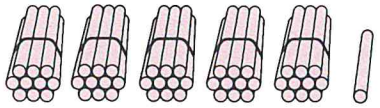


82 = ____ tens, 2 ones

= 7 tens, ____ ones

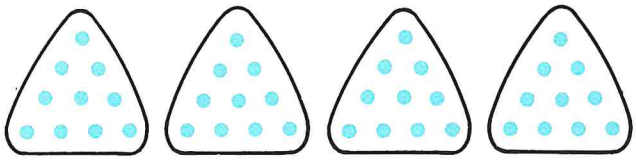
30 = ____ tens, 0 ones

= 2 tens, ____ ones



51 = ____ tens, 1 one

= 4 tens, ____ ones



40 = ____ tens, 0 ones

= 3 tens, ____ ones

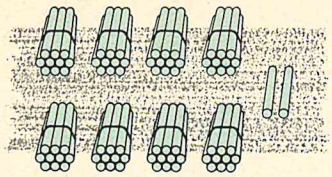
NAME _____

75 = 7 tens, ____ ones = 6 tens, ____ ones	38 = 3 tens, ____ ones = 2 tens, ____ ones
29 = 2 tens, ____ ones = 1 ten, ____ ones	40 = 4 tens, ____ ones = 3 tens, ____ ones
52 = 5 tens, ____ ones = 4 tens, ____ ones	80 = 8 tens, ____ ones = 7 tens, ____ ones
67 = 6 tens, ____ ones = 5 tens, ____ ones	94 = 9 tens, ____ ones = 8 tens, ____ ones
36 = ____ tens, 6 ones = ____ tens, 16 ones	63 = ____ tens, 3 ones = ____ tens, 13 ones
50 = ____ tens, 0 ones = ____ tens, 10 ones	41 = ____ tens, 1 one = ____ tens, 11 ones

NAME _____

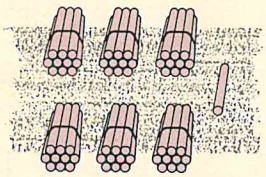
63 = 6 tens, ____ ones = 5 tens, ____ ones	46 = 4 tens, ____ ones = 3 tens, ____ ones
58 = 5 tens, ____ ones = 4 tens, ____ ones	72 = 7 tens, ____ ones = 6 tens, ____ ones
81 = 8 tens, ____ one = 7 tens, ____ ones	80 = 8 tens, ____ ones = 7 tens, ____ ones
65 = ____ tens, 5 ones = ____ tens, 15 ones	60 = ____ tens, 0 ones = ____ tens, 10 ones
123 = ____ tens, 3 ones = ____ tens, 13 ones	145 = ____ tens, 5 ones = ____ tens, 15 ones
112 = ____ tens, 2 ones = ____ tens, 12 ones	130 = ____ tens, 0 ones = ____ tens, 10 ones

NAME _____



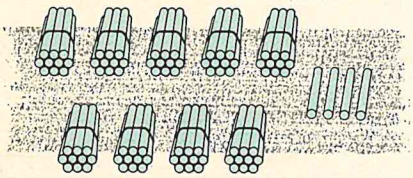
$82 = 7$ tens, ____ ones
$-56 = 5$ tens, 6 ones

____ tens, ____ ones, or ☐



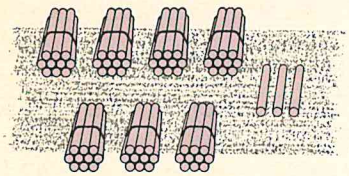
$61 = 5$ tens, ____ ones
$-23 = 2$ tens, 3 ones

____ tens, ____ ones, or ☐



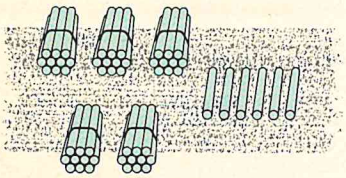
$94 = 8$ tens, ____ ones
$-67 = 6$ tens, 7 ones

____ tens, ____ ones, or ☐



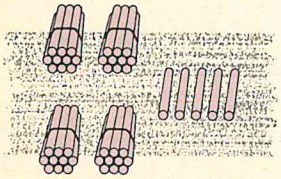
$73 = 6$ tens, ____ ones
$-47 = 4$ tens, 7 ones

____ tens, ____ ones, or ☐



$56 =$ ____ tens, 16 ones
$-29 = 2$ tens, 9 ones

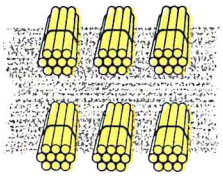
____ tens, ____ ones, or ☐



$45 =$ ____ tens, 15 ones
$-28 = 2$ tens, 8 ones

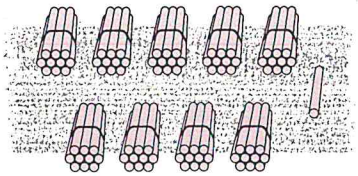
____ tens, ____ ones, or ☐

NAME _____



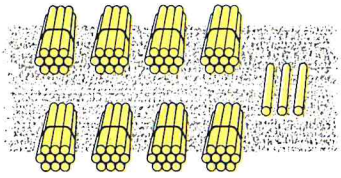
60 = ____ tens, ____ ones
−23 = 2 tens, 3 ones

____ tens, ____ ones, or ☐



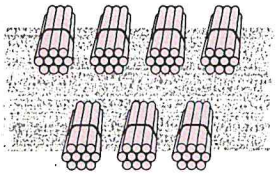
91 = ____ tens, ____ ones
−36 = 3 tens, 6 ones

____ tens, ____ ones, or ☐



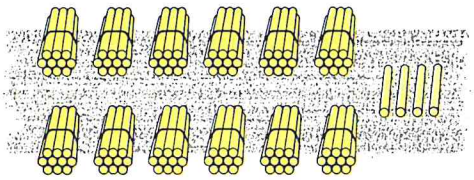
83 = ____ tens, ____ ones
−15 = 1 ten, 5 ones

____ tens, ____ ones, or ☐



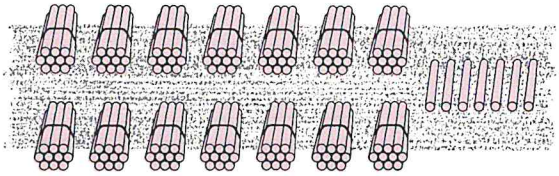
70 = ____ tens, ____ ones
−39 = 3 tens, 9 ones

____ tens, ____ one, or ☐



124 = ____ tens, ____ ones
−78 = 7 tens, 8 ones

____ tens, ____ ones, or ☐



147 = ____ tens, ____ ones
−88 = 8 tens, 8 ones

____ tens, ____ ones, or ☐

NAME _____

86 = ____ tens, ____ ones
−27 = 2 tens, 7 ones

____ tens, ____ ones

or ☐

75 = ____ tens, ____ ones
−36 = 3 tens 6 ones

____ tens, ____ ones

or ☐

94 = ____ tens, ____ ones
−39 = 3 tens, 9 ones

____ tens, ____ ones

or ☐

80 = ____ tens, ____ ones
−48 = 4 tens, 8 ones

____ tens, ____ ones

or ☐

74 = ____ tens, ____ ones
−49 = 4 tens, 9 ones

____ tens, ____ ones

or ☐

70 = ____ tens, ____ ones
−58 = 5 tens, 8 ones

____ tens, ____ ones

or ☐

135 = ____ tens, ____ ones
−97 = 9 tens, 7 ones

____ tens, ____ ones

or ☐

124 = ____ tens, ____ ones
−95 = 9 tens, 5 ones

____ tens, ____ ones

or ☐

117 = ____ tens, ____ ones
−89 = 8 tens, 9 ones

____ tens, ____ ones

or ☐

112 = ____ tens, ____ ones
−96 = 9 tens, 6 ones

____ tens, ____ ones

or ☐

NAME _____

$90 = ____$ tens, $____$ ones
$-63 = 6$ tens, 3 ones

$____$ tens, $____$ ones

or ☐

$84 = ____$ tens, $____$ ones
$-56 = 5$ tens, 6 ones

$____$ tens, $____$ ones

or ☐

$70 = ____$ tens, $____$ ones
$-45 = 4$ tens, 5 ones

$____$ tens, $____$ ones

or ☐

$91 = ____$ tens, $____$ ones
$-65 = 6$ tens, 5 ones

$____$ tens, $____$ ones

or ☐

$72 = ____$ tens, $____$ ones
$-55 = 5$ tens, 5 ones

$____$ tens, $____$ ones

or ☐

$120 = ____$ tens, $____$ ones
$-81 = 8$ tens, 1 one

$____$ tens, $____$ ones

or ☐

$115 = ____$ tens, $____$ ones
$-39 = 3$ tens, 9 ones

$____$ tens, $____$ ones

or ☐

$110 = ____$ tens, $____$ ones
$-69 = 6$ tens, 9 ones

$____$ tens, $____$ one

or ☐

$100 = ____$ tens, $____$ ones
$-79 = 7$ tens, 9 ones

$____$ tens, $____$ one

or ☐

$137 = ____$ tens, $____$ ones
$-48 = 4$ tens, 8 ones

$____$ tens, $____$ ones

or ☐

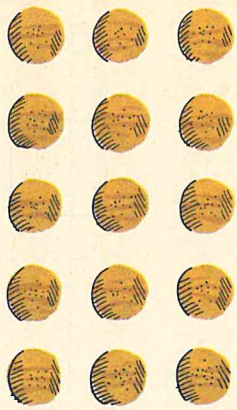
NAME _____

$4 \times 3 = \square$

$3 \times 4 = \square$

How many 3's in 12? ____

How many 4's in 12? ____



$5 \times 3 = \square$

$3 \times 5 = \square$

How many 3's in 15? ____

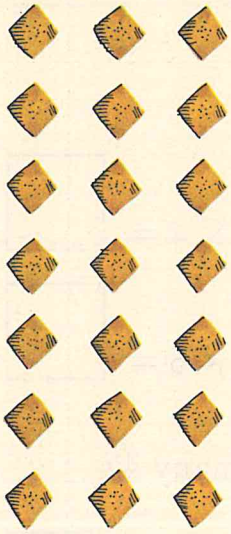
How many 5's in 15? ____

$6 \times 3 = \square$

$3 \times 6 = \square$

How many 3's in 18? ____

How many 6's in 18? ____

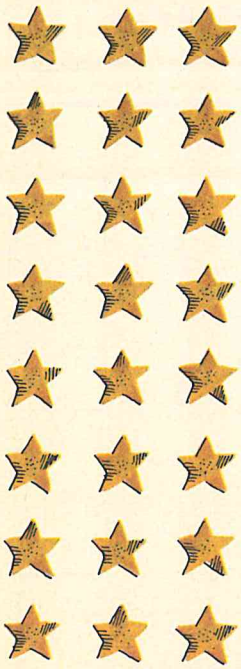


$7 \times 3 = \square$

$3 \times 7 = \square$

How many 3's in 21? ____

How many 7's in 21? ____

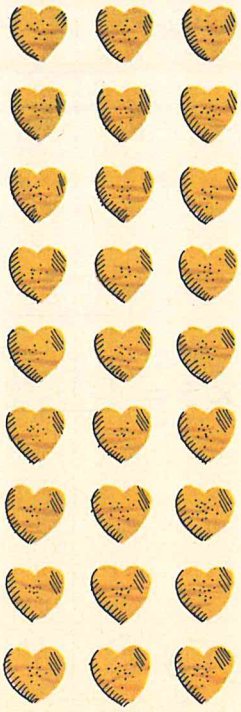


$8 \times 3 = \square$

$3 \times 8 = \square$

How many 3's in 24? ____

How many 8's in 24? ____



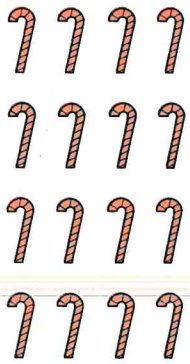
$9 \times 3 = \square$

$3 \times 9 = \square$

How many 3's in 27? ____

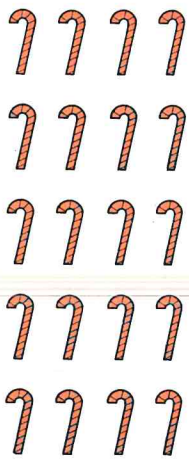
How many 9's in 27? ____

NAME _____



$4 \times 4 = \square$

How many 4's in 16? ____

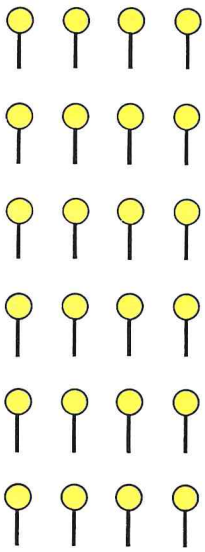


$5 \times 4 = \square$

$4 \times 5 = \square$

How many 4's in 20? ____

How many 5's in 20? ____

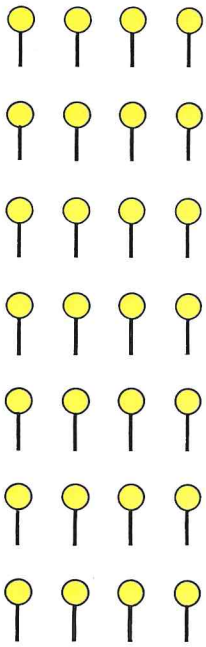


$6 \times 4 = \square$

$4 \times 6 = \square$

How many 4's in 24? ____

How many 6's in 24? ____

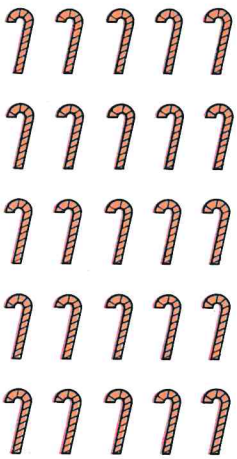


$7 \times 4 = \square$

$4 \times 7 = \square$

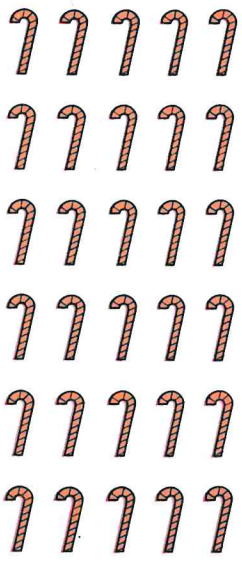
How many 4's in 28? ____

How many 7's in 28? ____



$5 \times 5 = \square$

How many 5's in 25? ____



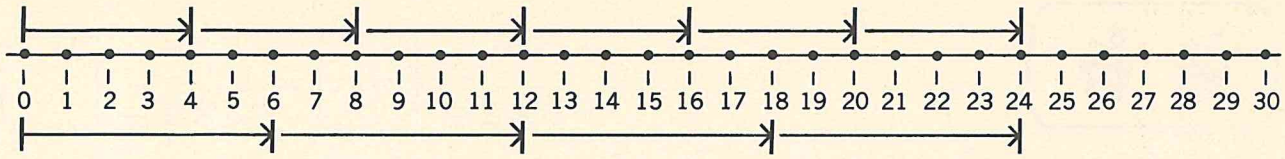
$6 \times 5 = \square$

$5 \times 6 = \square$

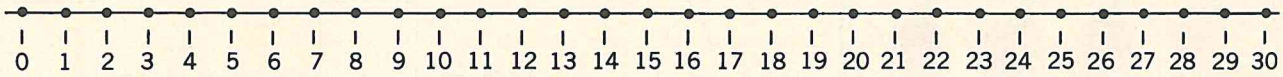
How many 5's in 30? ____

How many 6's in 30? ____

NAME _____



$6 \times 4 =$ ☐ $4 \times 6 =$ ☐



$7 \times 3 =$ ☐ $8 \times 3 =$ ☐ $9 \times 3 =$ ☐

$3 \times 7 =$ ☐ $3 \times 8 =$ ☐ $3 \times 9 =$ ☐

$5 \times 4 =$ ☐ $7 \times 4 =$ ☐ $5 \times 6 =$ ☐

$4 \times 5 =$ ☐ $4 \times 7 =$ ☐ $6 \times 5 =$ ☐

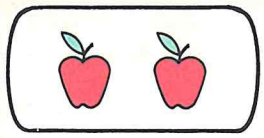
$5 \times 2 =$ ⬠ $\times 5$ $4 \times 3 = 3 \times$ ⬡

☐ $\times 3 = 3 \times 8$ $2 \times$ ⬠ $= 9 \times 2$

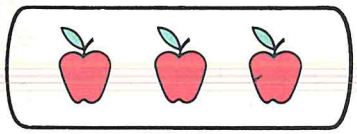
⬡ $\times 6 = 6 \times 4$ $3 \times 7 =$ ☐ $\times 3$

$2 \times 10 =$ ☐ $\times 2$ ⬡ $\times 10 = 10 \times 5$

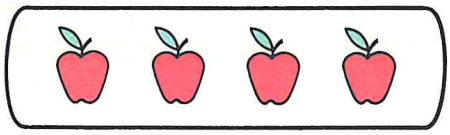
NAME _____



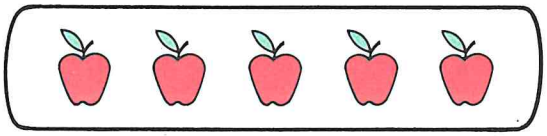
$1 \times 2 = \square$ $2 \times 1 = \square$



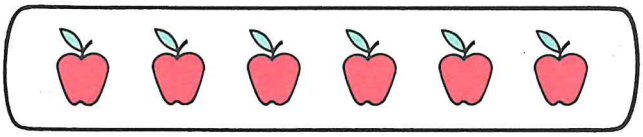
$1 \times 3 = \square$ $3 \times 1 = \square$



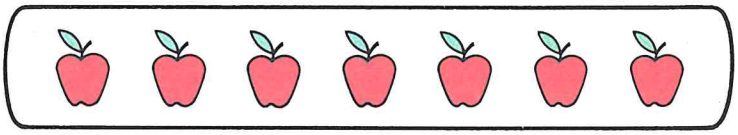
$1 \times 4 = \square$ $4 \times 1 = \square$



$1 \times 5 = \square$ $5 \times 1 = \square$



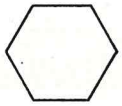
$1 \times 6 = \square$ $6 \times 1 = \square$



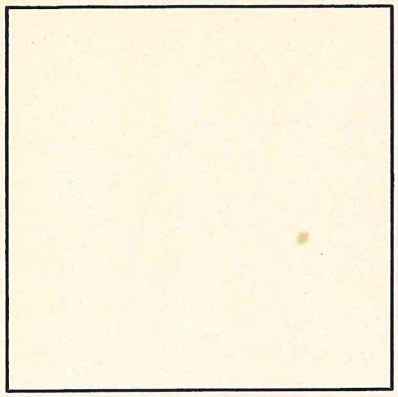
$1 \times 7 = \square$ $7 \times 1 = \square$

$1 \times 8 = \square$ $1 \times 9 =$

$8 \times 1 = \square$ $9 \times 1 = \square$

$1 \times 12 = \square$ $15 \times 1 =$ 

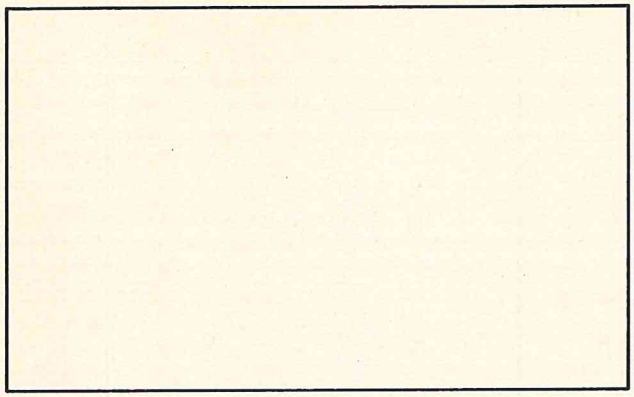
NAME _____



0 ways 1 way

2 ways 3 ways

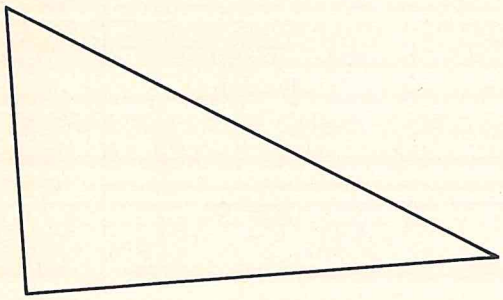
4 ways Many ways



0 ways 1 way

2 ways 3 ways

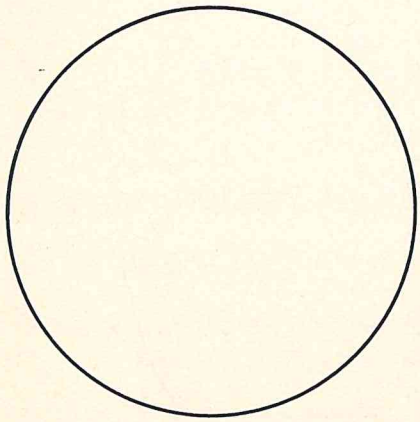
4 ways Many ways



0 ways 1 way

2 ways 3 ways

4 ways Many ways



0 ways 1 way

2 ways 3 ways

4 ways Many ways

NAME _____

Write the missing sign, +, −, or ×.

7	◆	2 = 14	5	◆	1 = 5
7	◆	3 = 10	3	◆	6 = 18
7	◆	4 = 28	2	◆	7 = 9
7	◆	5 = 2	1	◆	8 = 8
7	◆	6 = 13	0	◆	8 = 8
7	◆	7 = 0	9	◆	9 = 18
8	◆	3 = 24	9	◆	1 = 9
8	◆	4 = 4	9	◆	1 = 8
8	◆	5 = 13	0	◆	9 = 9
6	◆	5 = 30	10	◆	5 = 5
5	◆	5 = 10	10	◆	5 = 15
5	◆	5 = 0	12	◆	7 = 19
5	◆	5 = 25	12	◆	7 = 5

THE GRADE TWO LEARNING PROGRAM

To the parents

Many of you ask: What is modern mathematics? Is it something new in mathematics or just an accelerated program? How can it help my child more than a traditional program can?

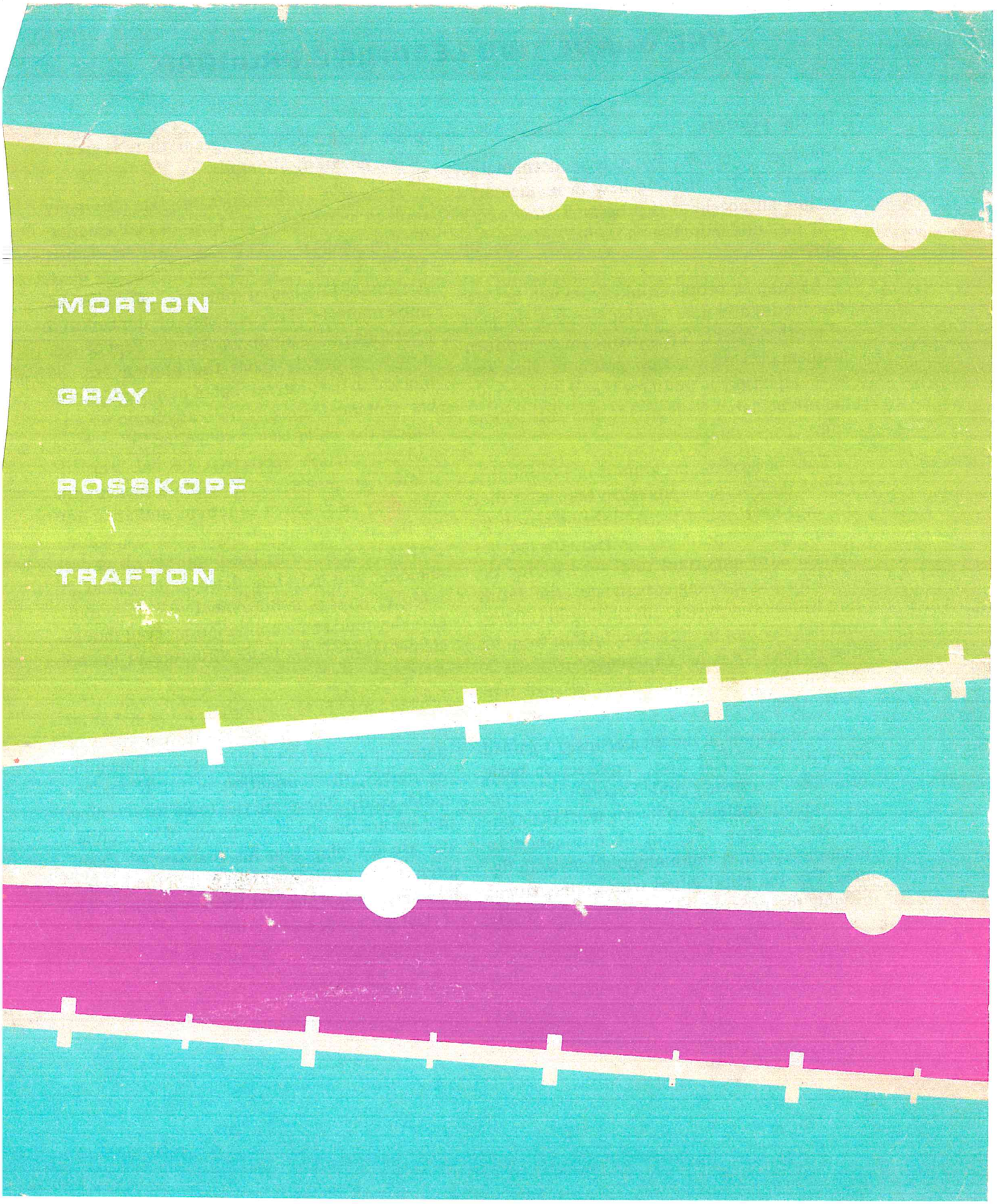
As long as people think, there will be new discoveries and new developments in the field of mathematics. This program of modern mathematics reflects new points of view and new emphases. It prepares the child to apply the mathematics he learns to the world about him.

The spirit of the program is one of inquiry, one of discovery. Pupils learn best what they discover for themselves. And they discover by inquiring, by experimenting. Here the teacher plays a most important role — preparing the child for the learning experience, stimulating him to make inquiries, channeling his efforts, and helping him to draw conclusions from his discoveries. He is led to discover *why* we do certain things in mathematics, not just *how* we do them.

For most pupils, the greater insight gained from discovery and from emphasis on basic principles is a steady guide to continued progress in mathematics. No longer must the average or the slow learner be enmeshed in meaningless rules and manipulations with figures. For the pupil gifted with mathematical insight, the program opens new vistas to explore. Under such a program, there is greater achievement by all pupils.

A modern mathematics program uses many tools to help convey the ideas of mathematics. The language is more precise; only words that are correct in a mathematical sense are used. A number line is a graphic aid that helps the pupil understand the sequence of numbers and operations with numbers. The concept of sets moves smoothly from the known "set of blocks" to the abstract "set of numbers." Number sentences are a simple algebraic way in which the child can express addition facts and subtraction facts that he has learned; number sentences also provide a meaningful summary of problem situations and are a key to effective problem solving. Patterns in mathematics recognized by the pupil aid his understanding and help him discover new facts at a higher level of achievement. All these tools give the child some appreciation, even though elementary, of the basic structure of mathematics.

There are, in mathematics, a few key principles on which most of the development of mathematics can be built. These are the building blocks, the foundation of future mathematics study. These are the tools for learning that we are putting in the hands of your child. We are teaching him his first use of them, guiding him to discover for himself their many uses, and preparing him for the mathematics of the later grades and of life.


MORTON
GRAY
ROSSKOPF
TRAFTON